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Modal verbs terminology

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

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Foreword

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

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

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where:

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

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

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

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

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

should indicates a recommendation to do something

should not indicates a recommendation not to do something

may indicates permission to do something

need not indicates permission not to do something

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

can indicates that something is possiblecannot indicates that something is impossible

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

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

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

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

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

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

behaviour of which is outside the scope of the present document

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

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

In addition:

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

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

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

1 Scope

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

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

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

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

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

3 Definitions and abbreviations

3.1 Definitions

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

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

3.2 Abbreviations

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

AVP Attribute-Value-Pair CR Change Request

IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

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

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

4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

Application identifier	Application	3GPP TS
16777216	3GPP Cx/Px	29.228 [1] and 29.229 [2]
16777217	3GPP Sh/Ph	29.328 [3] and 29.329 [4]
16777218	3GPP Re	32.296 [14]
16777219	3GPP Wx	29.234 [6]
16777220	3GPP Zn	29.109 [7]
16777221	3GPP Zh	29.109 [7]
16777222	3GPP Gq	29.209 [8]
16777223	3GPP Gmb	29.061 [13]
16777224	3GPP Gx	29.210 [15]
16777225	3GPP Gx over Gy	29.210 [15]
16777226	3GPP MM10	29.140 [16]
16777229	3GPP Rx	29.211 [17]
16777230	3GPP Pr	29.234 [6]
16777236	3GPP Rx	29.214 [18]
16777238	3GPP Gx	29.212 [19]
16777250	3GPP STa	29.273 [20]
16777251	3GPP S6a	29.272 [21]
16777252	3GPP S13/S13'	29.272 [21]
16777255	3GPP SLg	29.172 [24]
16777264	3GPP SWm	29.273 [20]
16777265	3GPP SWx	29.273 [20]
16777266	3GPP Gxx	29.212 [19]
16777267	3GPP S9	29.215 [22]
16777268	3GPP Zpn	29.109 [7]
16777272	3GPP S6b	29.273 [20]
16777291	3GPP SLh	29.173 [25]
16777292	3GPP SGmb	29.061 [13]
16777302	3GPP Sy	29.219 [26]
16777303	3GPP Sd	29.212 [19]
16777308	3GPP S7a	29.272 [21]
16777309	3GPP Tsp	29.368 [27]
16777310	3GPP S6m	29.336 [28]
16777311	3GPP T4	29.337 [29]
16777312	3GPP S6c	29.338 [30]
16777313	3GPP SGd	29.338 [30]
16777318	3GPP S15	29.212 [19]
16777319	3GPP S9a	29.215 [22]
16777320	3GPP S9a*	29.215 [22]
16777335	3GPP MB2-C	29.468 [31]
16777336	3GPP PC4a	29.344 [33]
16777337 16777340	3GPP PC2 3GPP PC6/PC7	29.343 [32]
		29.345 [34]
16777342	3GPP Np 3GPP S6t	29.217 [35] 29.336 [28]
16777345 16777346		29.336 [28]
16777347	3GPP T6a/T6b 3GPP Ns	29.128 [36]
16777348	3GPP Ns 3GPP Nt	29.153[37]
16777349	3GPP St	29.134[36]
16777350	3GPP St 3GPP PC2	29.212 [19]
16777351	3GPP Diameter Data	29.343 [32]
10777331	Management	29.203 [39]
16777355	3GPP V4	29.388 [40]
16777356	3GPP V6	29.389 [41]
16777358	3GPP Nta	29.154 [38]
10111330	JOI I INIA	20.104 [00]

5 Command codes

The command codes are used for communicating the command associated with the Diameter message. The command code is carried in the Diameter header's Command-Code field. The command codes can be divided into standard command codes allocated by IANA and experimental command codes for testing purposes only.

5.1 Command codes allocated for 3GPP

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

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

Command code value	Command	name	Abbreviation		ecified in GPP TS							
300	User-Authorization-Req	uest/-Answer	UAR/UAA	•								
301	Server-Assignment-Rec	quest/-Answer	SAR/SAA	29.229 [2]								
302	Location-Info-Request/-	Answer	LIR/LIA									
303	Multimedia-Auth-Reque	st/-Answer	MAR/MAA									
304	Registration-Terminatio	n-Request/-	RTR/RTA									
	Answer											
305	Push-Profile-Request/-A	Answer	PPR/PPA									
306	User-Data-Request/-An	swer	UDR/UDA									
307	Profile-Update-Request	/-Answer	PUR/PUA	20	9.329 [4]							
308	Subscribe-Notifications-	Request/-Answer	SNR/SNA	23	9.329 [4]							
309	Push-Notification-Reque	est/-Answer	PNR/PNA									
310	Boostrapping-Info-Requ	iest/Answer	BIR/BIA	29	9.109 [7]							
	311	Message-Process-l	Request/Answer	•	MPR/MI	PA	29.140					
	312	GBAPush-Info-Req	uest/Answer		GPR/G	PI	29.10					

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

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

8388671	ProSe-Match-Report-Info- Request/Answer	PIR/PIA	
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	
8388674	ProSe-Alert-Request/Answer	ALR/ALA	
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	
8388676	ProXimity-Action-Request/Answer	PXR/PXA	00 0 40 [00]
8388727	ProXimity-Application-Request/Answer	XAR/XAA	29.343 [32]
8388720	Non-Aggregated-RUCI-Report- Request/Answer	NRR/NRA	
8388721	Aggregated-RUCI-Report- Request/Answer	ARR/ARA	29.217 [35]
8388722	Modify-Uecontext-Request/Answer	MUR/MUA	
8388724	Network-Status-Request/Answer	NSR/NSA	00 450 [07]
8388725	Network-Status-Continuous-Report- Request/Answer	NCR/NCA	29.153 [37]
8388723	Background-Data-Transfer- Request/Answer	BTR/BTA	29.154 [38]
8388728	Data-Pull-Request/Answer	DPR/DPA	
8388729	Data-Update-Request/Answer	DUR/DUA	29.283 [39]
8388730	Notification-Data-Request/Answer	NDR/NDA	
8388732	Connection-Management- Request/Answer	CMR/CMA	
8388733	MO-Data-Request/Answer	ODR/ODA	29.128 [36]
8388734	MT-Data-Request/Answer	TDR/TDA	
8388735	Event-Configuration-Request/Answer	ECR/ECA	20.454 [20]
8388736	Event-Reporting-Request/Answer	ERR/ERA	29.154 [38]

6 Vendor identifier

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

6.1 3GPP's vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

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

515 Max-Requested-Bandwidth-DL	Unsigned32
516 Max-Requested-Bandwidth-UL	Unsigned32
517 Media-Component-Description	Grouped
518 Media-Component-Number	Unsigned32
519 Media-Sub-Component AVP	Grouped
520 Media-Type 521 RR-Bandwidth	Enumerated
	Unsigned32
522 RS-Bandwidth 523 SIP-Forking-Indication	Unsigned32 Enumerated
524 Codec-Data	OctetString
525 Service-URN	OctetString
526 Acceptable-Service-Info	Grouped
527 Service-Info-Status	Enumerated
528 MPS-Identifier	OctetString
529 AF-Signalling-Protocol	Enumerated
530 Sponsored-Connectivity-Data	Grouped
531 Sponsor-Identity	OctetString
532 Application-Service-Provider-Identity	OctetString
533 Rx-Request-Type	Enumerated
534 Min-Requested-Bandwidth-DL	Unsigned32
535 Min-Requested-Bandwidth-UL	Unsigned32
536 Required-Access-Info	Enumerated
537 IP-Domain-Id	OctetString
538 GCS-Identifier	OctetString
539 Sharing-Key-DL	Unsigned32
540 Sharing-Key-UL	Unsigned32
541 Retry-Interval	Unsigned32
542 Sponsoring-Action	Enumerated
543 Max-Supported-Bandwidth-DL	Unsigned32
544 Max-Supported-Bandwidth-UL	Unsigned32
545 Min-Desired-Bandwidth-DL	Unsigned32
546 Min-Desired-Bandwidth-UL	Unsigned32
547 MCPTT-Identifier 548 Service-Authorization-Info	OctetString 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-Loss	Float32
569 NID	OctetString
570 MA-Information	Grouped
571 MA-Information-Action	Unsigned32
572 5GS-RAN-NAS-Release-Cause	Grouped
573 5GMM-Cause	Unsigned32
574 5GSM-Cause	Unsigned32
575 NGAP-Cause 576 NGAP-Group	Grouped Unsigned32
576 NGAP-Group	Unsigned32 Unsigned32
577 NGAP-value 578 Wireline-User-Location-Info	Grouped
579 HFC-Node-Identifier	OctetString
oro più o-noue-identinei	Octototility

E00	GLI-Identifier	OptotCtring	
		OctetString	4
	Line-Type	Unsigned32	
	The AVP codes from 582 to 599 are reserved for TS 29.209, TS		
	Visited-Network-Identifier	OctetString	4
	Public-Identity	UTF8String	4
	Server-Name	UTF8String	4
	Server-Capabilities	Grouped	-
	Mandatory-Capability	Unsigned32	-
	Optional-Capability	Unsigned32	_
	User-Data	OctetString	_
	SIP-Number-Auth-Items	Unsigned32	4
	SIP-Authentication-Scheme	UTF8String	4
	SIP-Authenticate	OctetString	<u> </u>
	SIP-Authorization	OctetString	_
	SIP-Authentication-Context	OctetString	
	SIP-Auth-Data-Item	Grouped	
	SIP-Item-Number	Unsigned32	
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
	Reason-Info	UTF8String	
618	Charging-Information	Grouped	
619	Primary-Event-Charging-Function-Name	DiameterURI	
	Secondary-Event-Charging-Function-Name	DiameterURI	
621	Primary-Charging-Collection-Function-Name	DiameterURI	
622	Secondary-Charging-Collection-Function-Name	DiameterURI	
623	User-Authorization-Type	Enumerated	
624	User-Data-Already-Available	Enumerated	
625	Confidentiality-Key	OctetString	
626	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	00 000 101
	Supported-Applications	Grouped	29.229 [2]
	Associated-Identities	Grouped	
	Originating-Request	Enumerated	1
	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Ğ	
		I Enumerated	
	ISCSCF-Restoration-Info	Enumerated Grouped	+
640	SCSCF-Restoration-Info Path	Grouped	
	Path	Grouped OctetString	
641	Path Contact	Grouped OctetString OctetString	
641 642	Path Contact Subscription-Info	Grouped OctetString OctetString Grouped	
641 642 643	Path Contact Subscription-Info Call-ID-SIP-Header	Grouped OctetString OctetString Grouped OctetString	-
641 642 643 644	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header	Grouped OctetString OctetString Grouped OctetString OctetString OctetString	
641 642 643 644 645	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString	
641 642 643 644 645 646	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString	
641 642 643 644 645 646 647	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString OctetString Grouped	
641 642 643 644 645 646 647 648	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated	
641 642 643 644 645 646 647 648 649	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Erouped Enumerated Grouped	
641 642 643 644 645 646 647 648 649	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Erouped Enumerated Grouped Enumerated Enumerated	
641 642 643 644 645 646 647 648 649 650	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Grouped	
641 642 643 644 645 646 647 648 649 650 651	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Grouped Enumerated Grouped Enumerated	
641 642 643 644 645 646 647 648 649 650 651 652	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32	
641 642 643 644 645 646 647 648 649 650 651 652 653	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32	
641 642 643 644 645 646 647 648 649 650 651 652 653 654	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number SAR-Flags	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32 Unsigned32	
641 642 643 644 645 646 647 648 649 650 651 652 653 654 655	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number SAR-Flags Allowed-WAF-WWSF-Identities	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32 Unsigned32 Grouped	
641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number SAR-Flags Allowed-WAF-WWSF-Identities WebRTC-Authentication-Function-Name	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String	
641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number SAR-Flags Allowed-WAF-WWSF-Identities WebRTC-Authentication-Function-Name	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String	
641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number SAR-Flags Allowed-WAF-WWSF-Identities WebRTC-Authentication-Function-Name WebRTC-Web-Server-Function-Name	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Unsigned32	
641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number SAR-Flags Allowed-WAF-WWSF-Identities WebRTC-Authentication-Function-Name WebRTC-Web-Server-Function-Name RTR-Flags P-CSCF-Subscription-Info	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Unsigned32 Grouped	
641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number SAR-Flags Allowed-WAF-WWSF-Identities WebRTC-Authentication-Function-Name WebRTC-Web-Server-Function-Name	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Unsigned32	

Social Content Soci	Note:	The AVP codes from 662 to 699 are reserved for TS 29.229.		
Total Misison October Octobe			Grouped	
Total User-Data OctoString OctoStrin				†
103 Data-Reference				†
Total				†
2015 2015				†
Total				†
Top Current-Location				†
Gentily-Set				†
Time				†
29.329 4				†
1711 DSAI-Tag				†
Title Discrimentation Enumerated Title Requested Nodes Unsigned32				20 320 [4]
Table Tabl			J	
Serving-Node-Indication				+
T15 Repository-Data-ID				+
Title Description Descri				+
Title				+
Title Local-Time-Zone-Indication				
T19 UDR-Flags				+
T20 Call-Reference-Info				4
Call-Reference-Number				1
Note: The AVP codes from 723 to799 are reserved for TS 29.329. Note: The AVP codes from 800 to 822 are reserved for TS 32.299. 823 Event-Type				4
Note: The AVP codes from 723 to 799 are reserved for TS 29.329.				4
Note: The AVP codes from 800 to 822 are reserved for TS 32.299.			OctetString	
Event-Type				
SIP-Method				1
Event				_
826 Content-Type 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-Response-Timestamp Time 835 SIP-Response-Timestamp Time 836 SIP-Response-Timestamp UTF8String 837 Application-Server UTF8String 838 Inter-Operator-Identifier Grouped 839 Originating-IOI UTF8String 840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Description UTF8String 845 SDP-Media-Description U				
827 Content-Length Unsigned32 828 Content-Disposition UTF8String 829 Role-O-Node Enumerated 830 User-Session-Id UTF8String 831 Calling-Party-Address UTF8String 832 Called-Party-Address UTF8String 833 Time-Stamps Grouped 834 SIP-Request-Timestamp Time 835 SIP-Response-Timestamp Time 836 Application-Server UTF8String 837 Application-Server UTF8String 838 Inter-Operator-Identifier Grouped 839 Originating-IOI UTF8String 840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Description UTF8String 845 SDP-Media-Description UTF8String 846 CG-Address Address </td <td></td> <td></td> <td></td> <td>1</td>				1
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Role-of-Node				1
830 User-Session-Id UTF8String 831 Calling-Party-Address UTF8String 832 Called-Party-Address UTF8String 833 Time-Stamps Grouped 834 SIP-Request-Timestamp Time 835 SIP-Response-Timestamp Time 836 Application-Server UTF8String 837 Application-provided-called-party-address UTF8String 838 Inter-Operator-Identifier Grouped 839 Originating-IOI UTF8String 840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Description UTF8String 845 SDP-Media-Description UTF8String 846 CG-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Address Address 849 Authorized-QoS				
831 Calling-Party-Address UTF8String 832 Called-Party-Address UTF8String 833 Time-Stamps Grouped 834 SIP-Request-Timestamp Time 835 SIP-Response-Timestamp UTF8String 836 Application-Server UTF8String 837 Application-provided-called-party-address UTF8String 838 Inter-Operator-Identifier Grouped 839 Originating-IOI UTF8String 840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Name UTF8String 845 SDP-Media-Description UTF8String 846 CG-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Address Address 849 Authorized-QoS UTF8String 850 Application-Server-Information Grouped 851 Trunk-Group-Id UTF8String 852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 855 S				
832 Called-Party-Address UTF8String 833 Time-Stamps Grouped 834 SIP-Request-Timestamp Time 835 SIP-Response-Timestamp Time 836 Application-Server UTF8String 837 Application-provided-called-party-address UTF8String 838 Inter-Operator-Identifier Grouped 839 Originating-IOI UTF8String 840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Name UTF8String 845 SDP-Media-Description UTF8String 846 CG-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Address Address 849 Authorized-QoS UTF8String 850 Application-Server-Information Grouped 851 Trunk-Group-Id Grouped 852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Associated-URI UTF8String 855 Service-Id			UTF8String	
833 Time-Stamps Grouped 834 SIP-Request-Timestamp Time 836 Application-Server UTF8String 837 Application-provided-called-party-address UTF8String 838 Inter-Operator-Identifier Grouped 839 Originating-IOI UTF8String 840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Name UTF8String 845 SDP-Media-Description UTF8String 846 CG-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Address Address 849 Authorized-QoS UTF8String 850 Application-Server-Information Grouped 851 Trunk-Group-Id Grouped 852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Rearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Group-Name UTF8String			UTF8String	
834 SIP-Request-Timestamp SIF-Response-Timestamp Time 336 Application-Server 337 Application-provided-called-party-address UTF8String 338 Inter-Operator-Identifier SIP-Response-Timestamp WIF8String WIFRString WIRRString WIR	832	Called-Party-Address		
834 SIP-Request-Timestamp SIF-Response-Timestamp Time 336 Application-Server 337 Application-provided-called-party-address UTF8String 338 Inter-Operator-Identifier SIP-Response-Timestamp WIF8String WIFRString WIRRString WIR	833	Time-Stamps	Grouped	1
835 SIP-Response-Timestamp Time 836 Application-Server UTF8String 837 Application-provided-called-party-address UTF8String 838 Inter-Operator-Identifier Grouped 839 Originating-IOI UTF8String 840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Name UTF8String 845 SDP-Media-Description UTF8String 846 CG-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Address Address 849 Authorized-QoS UTF8String 850 Application-Server-Information Grouped 851 Trunk-Group-Id UTF8String 852 Incoming-Trunk-Group-Id UTF8String 853 Service-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 Po	834	SIP-Request-Timestamp	Time	Ī
836 Application-Server 37 Application-provided-called-party-address 38 Inter-Operator-Identifier 39 Originating-IOI 40 Terminating-IOI 41 IMS-Charging-Identifier 42 SDP-Session-Description 43 SDP-Media-Component 44 SDP-Media-Name 45 SDP-Media-Description 46 CG-Address 47 GGSN-Address 48 Served-Party-IP-Address 48 Served-Party-IP-Address 49 Authorized-QoS 40 Application-Server-Information 40 TF8String 41 IMS-Charging-Identifier 42 SDP-Session-Description 43 SDP-Media-Description 44 SDP-Media-Description 45 SDP-Media-Description 46 CG-Address 47 GGSN-Address 48 Served-Party-IP-Address 49 Authorized-QoS 40 ITF8String 40 Application-Server-Information 40 Grouped 41 ITRN-Group-Id 41 ITRS-Tring 42 SDP-Media-Description 43 SDP-Media-Description 44 SDP-Media-Description 45 SDP-Media-Description 46 CG-Address 47 GGSN-Address 48 Served-Party-IP-Address 49 Authorized-QoS 40 ITF8String 40 Application-Server-Information 40 Grouped 41 ITRS-Tring 42 SDP-Media-Description 43 ITrunk-Group-Id 44 SDP-Media-Description 45 Application-Server-Information 46 Grouped 47 GGSN-Address 48 Server-Service 49 Authorized-QoS 40 ITF8String 40 ITF8String 40 ITF8String 41 IMS-Charged-Party 41 IMS-Charged-Party 42 ITF8String 43 IMS-Charged-Party 44 IMS-Charged-Party 45 ITRS-Tring 46 ITRS-Tring 47 ITRS-Tring 48 IMS-Charged-Party 48 IMS-Charged-Party 49 ITF8String 49 ITF8String 40 ITF8String 4	835	SIP-Response-Timestamp	Time	Ī
Application-provided-called-party-address UTF8String			UTF8String	1
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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 851 Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String <td>838</td> <td>Inter-Operator-Identifier</td> <td>Grouped</td> <td>1</td>	838	Inter-Operator-Identifier	Grouped	1
840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Name UTF8String 845 SDP-Media-Description UTF8String 846 CG-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Address Address 849 Authorized-QoS UTF8String 850 Application-Server-Information Grouped 851 Trunk-Group-Id UTF8String 852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Group-Name UTF8String </td <td></td> <td></td> <td></td> <td>†</td>				†
841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Name UTF8String 845 SDP-Media-Description UTF8String 846 CG-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Address Address 849 Authorized-QoS UTF8String 850 Application-Server-Information Grouped 851 Trunk-Group-Id Grouped 852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Group-Name UTF8String 860 Cause Grouped				1
842SDP-Session-DescriptionUTF8String843SDP-Media-ComponentGrouped844SDP-Media-NameUTF8String845SDP-Media-DescriptionUTF8String846CG-AddressAddress847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				†
843 SDP-Media-Component 844 SDP-Media-Name 845 SDP-Media-Description 846 CG-Address 847 GGSN-Address 848 Served-Party-IP-Address 849 Authorized-QoS 840 Application-Server-Information 851 Trunk-Group-Id 852 Incoming-Trunk-Group-Id 853 Outgoing-Trunk-Group-Id 854 Bearer-Service 855 Service-Id 856 Associated-URI 857 Charged-Party 858 PoC-Controlling-Address 849 UTF8String 850 UTF8String 851 UTF8String 852 UTF8String 853 Outgoing-Trunk-Group-Id 854 UTF8String 855 Service-Id 856 Associated-URI 857 Charged-Party 858 PoC-Controlling-Address 859 PoC-Group-Name 860 Cause Grouped				32,299 [5]
844SDP-Media-NameUTF8String845SDP-Media-DescriptionUTF8String846CG-AddressAddress847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdUTF8String852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped			Ŭ	[0]
845SDP-Media-DescriptionUTF8String846CG-AddressAddress847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				†
846CG-AddressAddress847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				†
847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped			Ŭ	†
848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				†
849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				†
850 Application-Server-Information Grouped 851 Trunk-Group-Id Grouped 852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Group-Name UTF8String 860 Cause Grouped				+
851 Trunk-Group-Id Grouped 852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Group-Name UTF8String 860 Cause Grouped				†
852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Group-Name UTF8String 860 Cause Grouped				+
853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				+
854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Group-Name UTF8String 860 Cause Grouped				+
855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Group-Name UTF8String 860 Cause Grouped				+
856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				+
857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				4
858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				4
859 PoC-Group-Name UTF8String 860 Cause Grouped				4
860 Cause Grouped				4
				4
861 Cause-Code Integer32				<u> </u>
	861	Cause-Code	Integer32	

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	Node-Functionality	Enumerated	
	Service-Specific-Data	UTF8String	
	Originator	Enumerated	
	PS-Furnish-Charging-Information	Grouped	
	PS-Free-Format-Data	OctetString	
	PS-Append-Free-Format-Data	Enumerated	
	Time-Quota-Threshold	Unsigned32	
869	Volume-Quota-Threshold	Unsigned32	
	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	
	PoC-Information	Grouped	
	MBMS-Information	Grouped	·
	Quota-Consumption-Time	Unsigned32	
	Media-Initiator-Flag	Enumerated	
	PoC-Server-Role	Enumerated	
	PoC-Session-Type	Enumerated	
	Number-Of-Participants	Unsigned32	
	Originator-Address	Grouped	
	Participants-Involved	UTF8String	
	Expires	Unsigned32	·
	Message-Body	Grouped	·
	Reserved	Grouped	
		-	
	Reserved	-	
	Address-Data	UTF8String	
	Address-Domain	Grouped	
899	Address-Type	Enumerated	
	l		
	TMGI	OctectString	
	Required-MBMS-Bearer-Capabilities	UTF8String	
	MBMS-StartStop-Indication	Enumerated	
	MBMS-Service-Area	OctectString	
	MBMS-Session-Duration	Unsigned32	
	Alternative-APN	UTF8String	
	MBMS-Service-Type	Enumerated	
	MBMS-2G-3G-Indicator	Enumerated	
	MBMS-Session-Identity	OctetString	
909		UTF8String	
910	Additional-MBMS-Trace-Info	OctetString	
911	MBMS-Time-To-Data-Transfer	Unsigned32	
912	MBMS-Session-Identity-Repetition-Number	Unsigned32	29.061
	MBMS-Required-QoS	UTF8String	[13]
	MBMS-Counting-Information	Enumerated	
	MBMS-User-Data-Mode-Indication	Enumerated	
	MBMS-GGSN-Address	UTF8String	
	MBMS-GGSN-IPv6-Address	UTF8String	•
	MBMS-BMSC-SSM-IP-Address	UTF8String	
	MBMS-BMSC-SSM-IPv6-Address	UTF8String	
	MBMS-Flow-Identifier	OctetString	
	CN-IP-Multicast-Distribution	Enumerated	
	MBMS-HC-Indicator	Enumerated	
	MBMS-Access-Indicator	Enumerated	
	MBMS-GW-SSM-IP-Address	OctetString	
	MBMS-GW-SSM-IPv6-Address	OctetString	
J∠3	INDINIO-GAA-OOIALIE AO-WOOLE22	Octeroung	

926 MBMS-BMSC-SSM-UDP-Port	OctetSt	ring	
927 MBMS-GW-UDP-Port	OctetSt	ring	
928 MBMS-GW-UDP-Port-Indicator	Enumer	rated	
929 MBMS-Data-Transfer-Start	Unsigne	ed64	
930 MBMS-Data-Transfer-Stop	Unsigne	ed64	
931 MBMS-Flags	Unsigne	ed32	
932 Restart-Counter	Unsigne	ed32	
933 Diagnostic-Info	Unsigne	ed32	
934 MBMS-Cell-List	OctetSt		
Note: The AVP codes from 935 to 999 are reserved for TS 29.061			
1000 Bearer-Usage	Enumerated		
1001 Charging-Rule-Install	Grouped		
1002 Charging-Rule-Remove	Grouped		
1003 Charging-Rule-Definition	Grouped		
1004 Charging-Rule-Base-Name	UTF8String		
1005 Charging-Rule-Name	OctetString		
1006 Event-Trigger	Enumerated		
1007 Metering-Method	Enumerated		
1007 Meterring-Wetriod	Enumerated		
1009 Online	Enumerated		
1010 Precedence	Unsigned32		
1011 Reporting-Level	Enumerated		
1012 TFT-Filter	IPFilterRule		
1013 TFT-Packet-Filter-Information	Grouped		
1014 ToS-Traffic-Class	OctetString		
1016 QoS-Information	Grouped		
1018 Charging-Rule-Report	Grouped		
1019 PCC-Rule-Status	Enumerated		
1020 Bearer-Identifier	OctetString		
1021 Bearer-Operation	Enumerated		
1022 Access-Network-Charging-Identifier-Gx	Grouped		
1023 Bearer-Control-Mode	Enumerated		
1024 Network-Request-Support	Enumerated		
1025 Guaranteed-Bitrate-DL	Unsigned32		
1026 Guaranteed-Bitrate-UL	Unsigned32		
1027 IP-CAN-Type	Enumerated		
1028 QoS-Class-Identifier	Enumerated		
1029 QoS-Negotiation	Enumerated	29.212 [19]	
1030 QoS-Upgrade	Enumerated		
1031 Rule-Failure-Code	Enumerated		
1032 RAT-Type	Enumerated		
1033 Event-Report-Indication	Grouped		
1034 Allocation-Retention-Priority	Grouped		
1035 CoA-IP-Address	Address		
1036 Tunnel-Header-Filter	IPFilterRule		
1037 Tunnel-Header-Length	Unsigned32		
1038 Tunnel-Information	Grouped		
1039 CoA-Information	Grouped		
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32		
1041 APN-Aggregate-Max-Bitrate-UL	Unsigned32		
1042 Revalidation-Time	Time		
1043 Rule-Activation-Time	Time		
1044 Rule-DeActivation-Time	Time		
1045 Session-Release-Cause	Enumerated		
1046 Priority-Level	Unsigned32		
1047 Pre-emption-Capability	Enumerated		
1048 Pre-emption-Vulnerability	Enumerated		
1049 Default-EPS-Bearer-QoS	Grouped		
1050 AN-GW-Address	Address		
1051 QoS-Rule-Install	Grouped		
1052 QoS-Rule-Remove	Grouped		
1053 QoS-Rule-Definition	Grouped		
1054 QoS-Rule-Name	OctetString		
1055 QoS-Rule-Report	Grouped		
1056 Security-Parameter-Index	OctetString		

4057 51 -11	0-4-404	1
1057 Flow-Label	OctetString	
1058 Flow-Information	Grouped IPFilterRule	
1059 Packet-Filter-Content 1060 Packet-Filter-Identifier	OctetString	
1000 Packet-Filter-Information	Grouped	
1062 Packet-Filter-Operation	Enumerated	
1063 Resource-Allocation-Notification	Enumerated	
1064 Session-Linking-Indicator	Enumerated	
1065 PDN-Connection-ID	OctetString	
1066 Monitoring-Key	OctetString	
1067 Usage-Monitoring-Information	Grouped	
1068 Usage-Monitoring-Level	Enumerated	
1069 Usage-Monitoring-Report	Enumerated	
1070 Usage-Monitoring-Support	Enumerated	
1071 CSG-Information-Reporting	Enumerated	
1072 Packet-Filter-Usage	Enumerated	
1073 Charging-Correlation-Indicator	Enumerated	
1074 QoS-Rule-Base-Name	UTF8String	
1075 Routing-Rule-Remove	Grouped	
1076 Routing-Rule-Definition	Grouped	
1077 Routing-Rule-Identifier	OctetString	
1078 Routing-Filter	Grouped	
1079 Routing-IP-Address 1080 Flow-Direction	Address Enumerated	
1080 Flow-Direction 1081 Routing-Rule-Install	Grouped	
1082 Credit-Management-Status	Unsigned32	
1085 Redirect-Information	Grouped	
1086 Redirect- Support	Enumerated	
1087 TDF-Information	Grouped	
1088 TDF-Application-Identifier	OctetString	
1089 TDF-Destination-Host	DiameterIdentity	
1090 TDF-Destination-Realm	DiameterIdentity	
1091 TDF-IP-address	Address	
1092 ADC-Rule-Install	Grouped	
1093 ADC-Rule-Remove	Grouped	
1094 ADC-Rule-Definition	Grouped	
1095 ADC-Rule-Base-Name	UTF8String	
1096 ADC-Rule-Name	OctetString	
1097 ADC-Rule-Report	Grouped	
1098 Application-Detection-Information	Grouped	
1099 PS-to-CS-Session-Continuity Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212	Enumerated	
1100 Served-User-Identity	Groupe	
1100 Served-Oser-Identity	UTF8Str	
1102 VAS-ID	UTF8String	
1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address	Grouped	
1106 Result-Recipient-Address	Grouped	
1107 Sequence-Number	Unsigned32	
1108 Recipient-Address	UTF8String	
1109 Routeing-Address	UTF8String	29.140 [16]
1110 Originating-Interface	Enumerated	
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key	UTF8String	
1115 Billing-Information	UTF8String	
1116 Status	Grouped	
1117 Status-Code	UTF8String	
1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	UTF8String	
1200 Domain-Name	UTF8String	
1200 Domain-Name 1201 Recipient-Address	Grouped	32.299 [5]
1201 Recipient-Address 1202 Submission-Time	Time	JZ.Z33 [J]
1202 Cubinission Time	TITLE	

1203	MM-Content-Type	Grouped	
1204	Type-Number	Enumerated	
1205	Additional-Type-Information	UTF8String	
	Content-Size	Unsigned32	
	Additional-Content-Information	Grouped	
	Addressee-Type	Enumerated	
	Priority	Enumerated	
	Message-ID	UTF8String	
	Message-Type	Enumerated	
	Message-Size	Unsigned32	
	Message-Class	Grouped	
	Class-Identifier	Enumerated	
	Token-Text	UTF8String	
	Delivery-Report-Requested	Enumerated	
	Adaptations	Enumerated	
	Applic-ID	UTF8String	
	Aux-Applic-Info	UTF8String	
	Content-Class	Enumerated	
	DRM-Content	Enumerated	
	Read-Reply-Report-Requested	Enumerated	
	Reply-Applic-ID	UTF8String	
	File-Repair-Supported	Enumerated	
	MBMS-User-Service-Type	Enumerated	
	Unit-Quota-Threshold	Unsigned32	
1227	PDP-Address	Address	
1228	SGSN-Address	Address	
1229	PoC-Session-Id	UTF8String	
1230	Deferred-Location-Even-Type	UTF8String	
1231	LCS-APN	UTF8String	
1232	LCS-Client-Id	Grouped	
	LCS-Client-Dialed-By-MS	UTF8String	
	LCS-Client-External-ID	UTF8String	
	LCS-Client-Name	Grouped	
	LCS-Data-Coding-Scheme	UTF8String	
	LCS-Format-Indicator	Enumerated	
	LCS-Name-String	UTF8String	
	LCS-Requestor-Id	Grouped	
	LCS-Requestor-Id-String	UTF8String	
12/11	LCS-Client-Type	Enumerated	
	Location-Estimate	OctetString	
	Location-Estimate-Type	Enumerated	
1243	Location Type		
	Location-Type	Grouped	
	Positioning-Data	UTF8String	
	Reserved	- -	
	PDP-Context-Type	Enumerated	
	MMBox-Storage-Requested	Enumerated	
	Service-Specific-Info	Grouped	
	Called-Asserted-Identity	UTF8String	
	Requested-Party-Address	UTF8String	
	PoC-User-Role	Grouped	
	PoC-User-Role-IDs	UTF8String	
	PoC-User-Role-info-Units	Enumerated	
	Talk-Burst-Exchange	Grouped	
1256	Service-Generic-Information	Grouped	
	Service-Specific-Type	Unsigned32	
1258	Event-Charging-TimeStamp	Time	
	Participant-Access-Priority	Enumerated	
	Participant-Group	Grouped	
	PoC-Change-Conditions	Enumerated	
	PoC-Change-Time	Time	
	Access-Network-Information	OctetString	
	Trigger	Grouped	
	Base-Time-Interval	Unsigned32	
	Envelope	Grouped	
	Envelope-End-Time	Time	
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1268 Envelope-Reporting	Enumerated	
1269 Envelope-Start-Time	Time	
1270 Time-Quota-Mechanism	Grouped	
1271 Time-Quota-Type	Enumerated	
1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps	Grouped	
1274 SDP-Offer-Timestamp	Time	
1275 SDP-Answer-Timestamp	Time	
1276 AF-Correlation-Information	Grouped	
1277 PoC-Session-Initiation-type	Enumerated	
1278 Offline-Charging	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
Note: The AVP codes from 1289 to 1299 are reserved for TS 32.299		Г
1300 PC5-Radio-Technology	Enumerated	
1301 RAN-End-Time	Time	
1302 RAN-Secondary-RAT-Usage-Report	Grouped	
1303 RAN-Start-Time	Time	
1304 Secondary-RAT-Type	OctetString	
1305 Civic-Address-Information	UTF8String	
1306 WLAN-Operator-Id	Grouped	
1307 WLAN-Operator-Name	UTF8String	
1308 WLAN-PLMN-Id	UTF8String	
1309 API-Content	UTF8String	
1310 API-Direction	Enumerated	
1311 API-Identifier	OctetString	32.299 [5]
1312 API-Invocation-Timestamp	Time	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code	Time Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size	Time Unsigned32 Unsigned64	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node	Time Unsigned32 Unsigned64 Enumerated	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information	Time Unsigned32 Unsigned64 Enumerated Grouped	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address	Time Unsigned32 Unsigned64 Enumerated Grouped Address	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229.	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Grouped	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Grouped	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Grouped Unstance Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Grouped Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Unsigne	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UnF8String UTF8String UTF8String Unsigned32 Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped	32.299 [5] 29.272 [21]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN-GERAN-Authentication-Info	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned4 UTF8String UTF8String UTF8String Unsigned32 Unsigned32 Unsigned32 OctetString Grouped Grouped	
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN-GERAN-Authentication-Info	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 UnF8String UTF8String UTF8String Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 OctetString Grouped Unsigned32	
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN-GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString	
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 OctetString	
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated Grouped Unsigned32 Enumerated Grouped Unsed Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString	
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString	
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 OctetString Grouped Unsigned32 OctetString	
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString	

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-Configuration-Profile	Grouped
1430 APN-Configuration	Grouped
1431 EPS-Subscribed-QoS-Profile	Grouped
1432 VPLMN-Dynamic-Address-Allowed	Enumerated
1433 STN-SR	OctetString
1434 Alert-Reason	Enumerated
1435 AMBR	Grouped
1436 CSG-Subscription-Data	Grouped
1437 CSG-Id	Unsigned32
1438 PDN-GW-Allocation-Type	Enumerated
1439 Expiration-Date	Time
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32
	Unsigned32
1441 IDA-Flags 1442 PUA-Flags	Unsigned32
1443 NOR-Flags	
1444 User-Id	Unsigned32
	UTF8String
1445 Equipment-Status	Enumerated
1446 Regional-Subscription-Zone-Code	OctetString
1447 RAND	OctetString
1448 XRES	OctetString
1449 AUTN	OctetString
1450 KASME	OctetString
1451 Reserved	-
1452 Trace-Collection-Entity	Address
1453 Kc	OctetString
1454 SRES	OctetString
1455 Reserved	-
1456 PDN-Type	Enumerated
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated
1458 Trace-Data	Grouped
1459 Trace-Reference	OctetString
1460 Reserved	-
1461 Reserved	-
1462 Trace-Depth	Enumerated
1463 Trace-NE-Type-List	OctetString
1464 Trace-Interface-List	OctetString
1465 Trace-Event-List	OctetString
1466 OMC-Id	OctetString
1467 GPRS-Subscription-Data	Grouped
1468 Complete-Data-List-Included-Indicator	Enumerated
1469 PDP-Context	Grouped
1470 PDP-Type	OctetString
1471 3GPP2-MEID	OctetString
1472 Specific-APN-Info	Grouped
1473 LCS-Info	Grouped
1474 GMLC-Number	OctetString
1475 LCS-PrivacyException	Grouped
1476 SS-Code	
	OctetString OctotString
1477 SS-Status	OctetString
1478 Notification-To-UE-User	Enumerated
1479 External-Client	Grouped
TAXITIC JIENT-IMENTITY	OctetString
1480 Client-Identity	
1481 GMLC-Restriction 1482 PLMN-Client	Enumerated Enumerated

1483 Service-Type	Grouped		
1484 ServiceTypeIdentity	Unsigned32		
1485 MO-LR	Grouped		
1486 Teleservice-List	Grouped		
1487 TS-Code	Enumerated		
1488 Call-Barring-Info	Grouped		
1489 SGSN-Number	OctetString		
1490 IDR-Flags	Unsigned32		
1491 ICS-Indicator	Enumerated		
1492 IMS-Voice-Over-PS-Sessions-Supported	Enumerated		
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated		
1494 Last-UE-Activity-Time	Time		
1495 EPS-User-State	Grouped		
1496 EPS-Location-Information	Grouped		
1497 MME-User-State	Grouped		
1498 SGSN-User-State	Grouped		
1499 User-State	Enumerated		
1439 0561-5tate	Enumerateu		
4500 Non 2CDD Hoor Data	C		
1500 Non-3GPP-User-Data	Grouped		
1501 Non-3GPP-IP-Access	Enumerated		
1502 Non-3GPP-IP-Access-APN	Enumerated		
1503 AN-Trusted	Enumerated		
1504 ANID	UTF8String		
1505 Trace-Info	Grouped		
1506 MIP-FA-RK	OctetString		
1507 MIP-FA-RK-SPI	Unsigned32		
1508 PPR-Flags	Unsigned32		
1509 WLAN-Identifier	Grouped		
1510 TWAN-Access-Info	Grouped		
1511 Access-Authorization-Flags	Unsigned32		
1512 TWAN-Default-APN-Context-Id	Unsigned32		
1513 Reserved	-		
1514 Reserved	-	29.273 [20]	
1515 Reserved	-		
1516 Full-Network-Name	OctetString		
1517 Short-Network-Name	OctetString		
1518 AAA-Failure-Indication	Unsigned32		
1519 Transport-Access-Type	Enumerated		
1520 DER-Flags	Unsigned32		
1521 DEA-Flags	Unsigned32		
1522 RAR-Flags	Unsigned32		
1523 DER-S6b-Flags	Unsigned32		
1524 SSID	UTF8String		
1525 HESSID	UTF8String		
1526 Access-Network-Info	Grouped		
1527 TWAN-Connection-Mode	Unsigned32		
1528 TWAN-Connectivity-Parameters	Grouped		
1529 Connectivity-Flags	Unsigned32		
1530 TWAN-PCO	OctetSt		
1531 TWAG-CP-Address	Addre		
1532 TWAG-UP-Address	UTF8S		
1533 TWAN-S2a-Failure-Cause	Unsigne		
1534 SM-Back-Off-Timer	Unsigne		
1535 WLCP-Key	OctetSt		
318 3GPP-AAA-Server-Name	Diameterl		
1536 Origination-Time-Stamp	Unsigne		
1537 Maximum-Wait-Time	Unsigne		
1538 Emergency-Services	Unsigne		
1539 AAR-Flags	Unsigne		
1540 IMEI-Check-In-VPLMN-Result	Unsigne		
1541 ERP-Authorization	Unsigne	ea32	
Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.27			
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3	3GPP TS 29.234 and is	now defined in 30	SPP TS
29.273 from Rel-12.	T		
1600 MME-Location-Information	Group	ed	

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1601 SGSN-Location-Information	Grouped	4
1602 E-UTRAN-Cell-Global-Identity	OctetString	
1603 Tracking-Area-Identity	OctetString	_
1604 Cell-Global-Identity	OctetString	4
1605 Routing-Area-Identity	OctetString	4
1606 Location-Area-Identity	OctetString	
1607 Service-Area-Identity	OctetString	
1608 Geographical-Information	OctetString	_
1609 Geodetic-Information	OctetString	_
1610 Current-Location-Retrieved	Enumerated	_
1611 Age-Of-Location-Information	Unsigned32	_
1612 Active-APN	Grouped	<u> </u>
1613 SIPTO-Permission	Enumerated	_
1614 Error-Diagnostic	Enumerated	<u> </u>
1615 UE-SRVCC-Capability	Enumerated	4
1616 MPS-Priority	Unsigned32	4
1617 VPLMN-LIPA-Allowed	Enumerated	4
1618 LIPA-Permission	Enumerated	4
1619 Subscribed-Periodic-RAU-TAU-Timer	Unsigned32	4
1620 Ext-PDP-Type 1621 Ext-PDP-Address	OctetString	4
	Address	_
1622 MDT-Configuration	Grouped	-
1623 Job-Type	Enumerated	_
1624 Area-Scope	Grouped	4
1625 List-Of-Measurements	Unsigned32	_
1626 Reporting-Trigger	Unsigned32	_
1627 Report-Interval	Enumerated	_
1628 Report-Amount	Enumerated	4
1629 Event-ThresholdRSRP	Unsigned32	_
1630 Event-ThresholdRSRQ	Unsigned32	_
1631 Logging-Interval	Enumerated	_
1632 Logging-Duration	Enumerated	29.272
1633 Relay-Node-Indicator 1634 MDT-User-Consent	Enumerated	[21]
1635 PUR-Flags	Enumerated Unsigned32	_
1636 Subscribed-VSRVCC		_
1637 Equivalent-PLMN-List	Enumerated Grouped	_
1638 CLR-Flags	Unsigned32	+
1639 UVR-Flags	Unsigned32	+
1640 UVA-Flags	Unsigned32	+
1641 VPLMN-CSG-Subscription-Data	Grouped	-
1642 Time-Zone	UTF8String	-
1643 A-MSISDN	OctetString	+
1644 Reserved	-	+
1645 MME-Number-for-MT-SMS	OctetString	+
1646 Reserved	-	1
1647 Reserved	-	-
1648 SMS-Register-Request	Enumerated	-
1649 Local-Time-Zone	Grouped	-
1650 Daylight-Saving-Time	Enumerated	-
1651 GMLC-Info	Grouped	†
1652 GMLC-Name	DiameterIdentity	†
1653 GMLC-Realm	DiameterIdentity	-
1654 Subscription-Data-Flags	Unsigned32	†
1655 Measurement-Period-LTE	Enumerated	†
1656 Measurement-Period-UMTS	Enumerated	†
1657 Collection-Period-RRM-LTE	Enumerated	†
1658 Collection-Period-RRM-UMTS	Enumerated	†
1659 Positioning-Method	OctetString	†
1660 Measurement-Quantity	OctetString	†
1661 Event-Threshold-Event-1F	Integer32	†
1662 Event-Threshold-Event-1I	Integer32	†
1663 Restoration-Priority	Unsigned32	†
1664 SGs-MME-Identity	UTF8String	7
1665 SIPTO-Local-Network-Permission	Unsigned32	┪ !
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1666 Coupled-Node-Diameter-ID	DiameterIdentity	
1667 WLAN-offloadability	Grouped	
1668 WLAN-offloadability-EUTRAN	Unsigned32	
1669 WLAN-offloadability-UTRAN	Unsigned32	
1670 Reset-ID	OctetString	
1671 MDT-Allowed-PLMN-Id	OctetString	,
1672 Adjacent-PLMNs	Grouped	
1673 Adjacent-Access-Restriction-Data	Grouped	
1674 DL-Buffering-Suggested-Packet-Count	Integer32	
1675 IMSI-Group-Id	Grouped	
1676 Group-Service-Id	Unsigned32	
1677 Group-PLMN-Id	OctetString	
1678 Local-Group-Id	OctetString	
1679 AIR-Flags	Unsigned32	
1680 UE-Usage-Type	Unsigned32	
1681 Non-IP-PDN-Type-Indicator	Enumerated	
1682 Non-IP-Data-Delivery-Mechanism	Unsigned32	
1683 Additional-Context-Identifier	Unsigned32	
1684 SCEF-Realm	DiameterIdentity	
1685 Subscription-Data-Deletion	Grouped	1
1686 Preferred-Data-Mode	Unsigned32	
1687 Emergency-Info	Grouped	
1688 V2X-Subscription-Data	Grouped	•
1689 V2X-Permission	Unsigned32	
1690 PDN-Connection-Continuity	Unsigned32	
1691 eDRX-Cycle-Length	Grouped	
1692 eDRX-Cycle-Length-Value	OctetString	
1693 UE-PC5-AMBR	Unsigned32	
1694 MBSFN-Area	Grouped	
1695 MBSFN-Area-ID	Unsigned32	
1696 Carrier-Frequency	Unsigned32	
1697 RDS-Indicator	Enumerated	
	<u> </u>	
1698 Service-Gap-Time	Unsigned32	
1699 Aerial-UE-Subscription-Information	Unsigned32	
1700 Broadcast-Location-Assistance-Data-Types	Unsigned64	
1701 Paging-Time-Window	Grouped	
1702 Operation-Mode	Unsigned32	
1703 Paging-Time-Window-Length	OctetString	
1704 Core-Network-Restrictions	Unsigned32	
1705 eDRX-Related-RAT	Grouped	
1706 Interworking-5GS-Indicator	Enumerated	
1707 Ethernet-PDN-Type-Indicator	Enumerated	
1708 Subscribed-ARPI	Unsigned32	
1709 IAB-Operation-Permission	Enumerated	
1710 V2X-Subscription-Data-Nr	Grouped	
1711 UE-PC5-QoS	Grouped	
1712 PC5-QoS-Flow	Grouped	
1713 5QI	Integer32	
1714 PC5-Flow-Bitrates	Grouped	
1715 Guaranteed-Flow-Bitrates	Integer32	
1716 Maximum-Flow-Bitrates	Integer32	
1717 PC5-Range	Integer32	
1718 PC5-Link-AMBR	Integer32	
1719 Third-Context-ID	Unsigned32	
Note: The AVP codes from 1720 to 1799 are reserved for TS 29.272.	,	
2000 SMS-Information	Grouped	
2001 Data-Coding-Scheme	Integer32	
2002 Destination-Interface	Grouped	
2003 Interface-Id	UTF8String	
2004 Interface-Port	UTF8String	
2005 Interface-Text	UTF8String	32.299 [5]
2006 Interface-Type	Enumerated	
2007 SM-Message-Type	Enumerated	
2007 SW-Wessage-Type 2008 Originating-SCCP-Address	Address	
2009 Originator-Interface	Grouped	
	THOUDED	1

	1	
2010 Recipient-SCCP-Address	Address	
2011 Reply-Path-Requested	Enumerated	
2012 SM-Discharge-Time	Time	1
2013 SM-Protocol-ID	OctetString	<u> </u>
2014 SM-Status	OctetString	<u> </u>
2015 SM-User-Data-Header	OctetString	<u> </u>
2016 SMS-Node	Enumerated	↓
2017 SMSC-Address	Address	1
2018 Client-Address	Address	1
2019 Number-of-Messages-Sent	Unsigned32	1
2020 Low-Balance-Indication	Enumerated	1
2021 Remaining-Balance	Grouped	1
2022 Refund-Information	OctetString	1
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	
2030 MMTel-Information	Grouped]
2031 MMTel-Sservice-Type	Unsigned32]
2032 Service-Mode	Unsigned32]
2033 Subscriber-Role	Enumerated]
2034 Number-Of-Diversions	Unsigned32	†
2035 Associated-Party-Address	UTF8String	†
2036 SDP-Type	Enumerated	†
2037 Change-Condition	Integer32	†
2038 Change-Time	Time	†
2039 Diagnostics	Integer32	†
2040 Service-Data-Container	Grouped	†
2041 Start-Time	Time	†
2042 Stop-Time	Time	†
2043 Time-First-Usage	Time	†
2044 Time-Last-Usage	Time	†
2045 Time-Usage	Unsigned32	†
2046 Traffic-Data-Volumes	Grouped	†
2047 Serving-Node-Type	Enumerated	+
2048 Supplementary-Service	Grouped	†
2049 Participant-Action-Type	Enumerated	†
2050 PDN-Connection-Charging-ID	Unsigned32	+
2051 Dynamic-Address-Flag	Enumerated	1
2052 Accumulated-Cost	Grouped	1
2053 AoC-Cost-Information	Grouped	+
2054 AoC-Information		+
	Grouped	
2055 AoC-Request-Type	Enumerated	
2056 Current-Tariff	Grouped	
2057 Next-Tariff	Grouped	
2058 Rate-Element	Grouped	<u> </u>
2059 Scale-Factor	Grouped	
2060 Tariff-Information	Grouped	
2061 Unit-Cost	Grouped	
2062 Incremental-Cost	Grouped	
2063 Local-Sequence-Number	Unsigned32]
2064 Node-Id	UTF8String	
2065 SGW-Change	Enumerated	.
2066 Charging-Characteristic-Selection-Mode	Enumerated	.
2067 SGW-Address	Address]
2068 Dynamic-Address-Flag-Extension	Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.		
2100 reserved		
2101 Application-Server-ID	UTF8String]
2102 Application-Service-Type	Enumerated	32.299 [5]
2103 Application-Session-ID	Unsigned32]
2104 Delivery-Status	UTF8String	1
	· y	

	1	
2105 reserved	-	
2106 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: The AVP codes from 2119 to 2199 are reserved for TS 32.299.	Enamorated	
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
2202 Subsession-Id	Unsigned32	
2203 Subsession-Operation	Enumerated	
2204 Multiple-BBERF-Action	Enumerated	29.215
2205 UE-Local-IPv6-Prefix	OctetString	[22]
2206 DRA-Deployment	Enumerated	
2207 PCRF-Address	DiameterIdentity	
2208 DRA-Binding	Enumerated	
Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215.		
2300 reserved	-	
2301 SIP-Request-Timestamp-Fraction	Unsigned32	
2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2303 Online-Charging-Flag	Enumerated	
2304 CUG-Information	OctetString	
2305 Real-Time-Tariff-Information	Grouped	
2306 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	00 000 [5]
2312 AoC-Service-Obligatory-Type	Grouped	32.299 [5]
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	-	
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator	Enumerated	
2323 MBMS-Charged-Party	Enumerated	
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.		
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
		1
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets	Unsigned32	
2404 LCS-Capabilities-Sets 2405 GMLC-Address	Unsigned32 Address	29.173
2404 LCS-Capabilities-Sets 2405 GMLC-Address 2406 Additional-Serving-Node	Unsigned32 Address Grouped	29.173 [25]
2404 LCS-Capabilities-Sets 2405 GMLC-Address 2406 Additional-Serving-Node 2407 PPR-Address	Unsigned32 Address Grouped Address	
2404 LCS-Capabilities-Sets 2405 GMLC-Address 2406 Additional-Serving-Node 2407 PPR-Address 2408 MME-Realm	Unsigned32 Address Grouped Address DiameterIdentity	
2404 LCS-Capabilities-Sets 2405 GMLC-Address 2406 Additional-Serving-Node 2407 PPR-Address 2408 MME-Realm 2409 SGSN-Name	Unsigned32 Address Grouped Address DiameterIdentity DiameterIdentity	
2404 LCS-Capabilities-Sets 2405 GMLC-Address 2406 Additional-Serving-Node 2407 PPR-Address 2408 MME-Realm 2409 SGSN-Name 2410 SGSN-Realm	Unsigned32 Address Grouped Address DiameterIdentity DiameterIdentity DiameterIdentity	
2404 LCS-Capabilities-Sets 2405 GMLC-Address 2406 Additional-Serving-Node 2407 PPR-Address 2408 MME-Realm 2409 SGSN-Name 2410 SGSN-Realm 2411 RIA-Flags	Unsigned32 Address Grouped Address DiameterIdentity DiameterIdentity	
2404 LCS-Capabilities-Sets 2405 GMLC-Address 2406 Additional-Serving-Node 2407 PPR-Address 2408 MME-Realm 2409 SGSN-Name 2410 SGSN-Realm 2411 RIA-Flags Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173.	Unsigned32 Address Grouped Address DiameterIdentity DiameterIdentity DiameterIdentity Unsigned32	[25]
2404 LCS-Capabilities-Sets 2405 GMLC-Address 2406 Additional-Serving-Node 2407 PPR-Address 2408 MME-Realm 2409 SGSN-Name 2410 SGSN-Realm 2411 RIA-Flags	Unsigned32 Address Grouped Address DiameterIdentity DiameterIdentity DiameterIdentity	

	LCS-Requestor-Name	Grouped
	LCS-Priority	Unsigned32
	LCS-QoS	Grouped
	Horizontal-Accuracy Vertical-Accuracy	Unsigned32 Unsigned32
	Vertical-Accuracy Vertical-Requested	Enumerated
	Velocity-Requested	Enumerated
	Response-Time	Enumerated
	Supported-GAD-Shapes	Unsigned32
	LCS-Codeword	UTF8String
	LCS-Privacy-Check	Enumerated
2513	Accuracy-Fulfilment-Indicator	Enumerated
2514	Age-Of-Location-Estimate	Unsigned32
	Velocity-Estimate	OctetString
	EUTRAN-Positioning-Data	OctetString
2517 E		OctetString
	Location-Event	Enumerated
	Pseudonym-Indicator	Enumerated
	LCS-Service-Type-ID	Unsigned32
	LCS-Privacy-Check-Non-Session	Grouped
	LCS-Privacy-Check-Session LCS-QoS-Class	Grouped
	LCS-QoS-Class GERAN-Positioning-Info	Enumerated
	GERAN-Positioning-Into GERAN-Positioning-Data	Grouped OctetString
	GERAN-Positioning-Data GERAN-GANSS-Positioning-Data	OctetString
	UTRAN-Positioning-Info	Grouped
	UTRAN-Positioning-Data	OctetString
	UTRAN-GANSS-Positioning-Data	OctetString
	LRR-Flags	Unsigned32
	LCS-Reference-Number	OctetString
	Deferred-Location-Type	Unsigned32
2533	Area-Event-Info	Grouped
	Area-Definition	Grouped
2535		Grouped
	Area-Type	Unsigned32
	Area-Identification	Grouped
	Occurrence-Info	Enumerated
	Interval-Time	Unsigned32
	Periodic-LDR-Information	Grouped
	Reporting-Amount Reporting-Interval	Unsigned32 Unsigned32
	Reporting-PLMN-List	Grouped
	PLMN-ID-List	Grouped
	PLR-Flags	Unsigned32
	PLA-Flags	Unsigned32
	Deferred-MT-LR-Data	Grouped
	Termination-Cause	Unsigned32
	LRA-Flags	Unsigned32
	Periodic-Location-Support-Indicator	Enumerated
	Prioritized-List-Indicator	Enumerated
	ESMLC-Cell-Info	Grouped
	Cell-Portion-ID	Unsigned32
	1xRTT-RCID	OctetString
	Delayed-Location-Reporting-Data	Grouped
	Civic-Address	UTF8String
	Barometric-Pressure	Unsigned32
	UTRAN-Additional-Positioning-Data	OctetString
	Motion-Event-Info	Grouped
	Linear-Distance	Unsigned32
	Maximum-Interval Sampling-Interval	Unsigned32 Unsigned32
	Sampling-Interval Reporting-Duration	Unsigned32 Unsigned32
	Reporting-Duration Reporting-Location-Requirements	Unsigned32
	Additional-Area	Grouped
	The AVP codes from 2566 to 2599 are reserved for TS 29.	

		1
2600 reserved		
2601 IMS-Application-Reference-Identifier	UTF8String	
2602 Low-Priority-Indicator	Enumerated	00 000 [5]
2603 IP-Realm-Default-Indicator	Enumerated	32.299 [5]
2604 Local-GW-Inserted-Indicator	Enumerated	
2605 Transcoder-Inserted-Indicator	Enumerated	
2606 PDP-Address-Prefix-Length	Unsigned32	
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299	ð. -	
2700 Reserved	-	
2701 Transit-IOI-List	UTF8String	
2702 Status-AS-Code	Enumerated	
2703 NNI-Information	Grouped	
2704 NNI-Type	Enumerated	
2705 Neighbour-Node-Address	Address	
2706 Relationship-Mode	Enumerated	
2707 Session-Direction	Enumerated	
2708 From-Address	UTF8String	32.299 [5]
2709 Access-Transfer-Information	Grouped	32.299 [3]
2710 Access-Transfer-Type	Enumerated	
2711 Related-IMS-Charging-Identifier	UTF8String	
2712 Related-IMS-Charging-Identifier-Node	Address	
2713 IMS-Visited-Network-Identifier	UTF8String	
2714 TWAN-User-Location-Info	Grouped	
2715 Reserved	-	
2716 BSSID	UTF8String	
2717 TAD-Identifier	Enumerated	
Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299		<u> </u>
2800 Reserved	-	
2801 ADC-Revalidation-Time	Time	
2802 TDF-Application-Instance-Identifier	OctetString	
2803 HeNB-BBF-FQDN	UTF8String	
2804 HeNB-Local-IP-Address	Address	
2805 UE-Local-IP-Address	Address	
2806 UDP-Source-Port	Unsigned32	
2807 CS-Service-Qos-Request-Identifier	OctetString	
2808 CS-Service-QoS-Request-Operation	Enumerated	
2809 Mute-Notification	Enumerated	
2810 Monitoring-Time	Time	
2811 AN-GW-Status	Enumerated	
2812 User-Location-Info-Time	Grouped	
2813 CS-Service-Resource-Report	Time	
2814 CS-Service-Resource-Failure-Cause	Enumerated	
2815 CS-Service-Resource-Result-Operation	Enumerated	
2816 Default-QoS-Information	Grouped	
2817 Default-QoS-Name	UTF8String	
2818 Conditional-APN-Aggregate-Max-Bitrate	Grouped	29.212
2819 RAN-NAS-Release-Cause	OctetString	[19]
2820 Presence-Reporting-Area-Elements-List	OctetString	
2821 Presence-Reporting-Area-Identifier	OctetString	
2822 Presence-Reporting-Area-Information	Grouped	
2823 Presence-Reporting-Area-Status	Unsigned32	
2824 NetLoc-Access-Support	Unsigned32	
2825 Fixed-User-Location-Info	Grouped	
2826 PCSCF-Restoration-Indication	Unsigned32	
2827 IP-CAN-Session-Charging-Scope	Enumerated	
2828 Monitoring-Flags	Unsigned32	
2829 Default-Access	Enumerated	
2830 NBIFOM-Mode	Enumerated	
2831 NBIFOM-Support	Enumerated	
2832 RAN-Rule-Support	Unsigned32	
2833 Access-Availability-Change-Reason	Unsigned32	
2834 Routing-Rule-Failure-Code	Unsigned32	
	• •	1
2835 Routing-Rule-Report	Grouped	
	OctetString OctetString	

2838 Request-Type	Unsigned32	
2839 Execution-Time	Time	
2840 Conditional-Policy-Information	Grouped	
2841 Resource-Release-Notification	Enumerated	
2842 Removal-Of-Access	Enumerated	
2843 TCP-Source-Port	Unsigned32	
2844 Default-Bearer-Indication	Enumerated	
2845 PRA-Install	Grouped	
2846 PRA-Remove	Grouped	
2847 3GPP-PS-Data-Off-Status	Enumerated	
2848 Extended-APN-AMBR-DL	Unsigned32	
2849 Extended-APN-AMBR-UL	Unsigned32	
2850 Extended-GBR-DL	Unsigned32	
2851 Extended-GBR-UL	Unsigned32	
2852 Max-PLR-DL	Unsigned32	
2853 Max-PLR-UL	Unsigned32	
2854 UE-Status	Unsigned32	
	Unsignedsz	
Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212.		
2900 reserved	- Crouped	
2901 Policy-Counter-Identifier	Grouped	
2902 Policy-Counter-Status	UTF8String	00.040
2903 Policy-Counter-Status-Report	Grouped	29.219
2904 SL-Request-Type	Enumerated	[26]
2905 Pending-Policy-Counter-Information	Grouped	
2906 Pending-Policy-Counter-Change-Time	Time	
2907 SN-Request-Type	Unsigned32	
Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219.		
3000 reserved	-	
3001 Device-Action	Grouped	
3002 Device-Notification	Grouped	
3003 Trigger-Data	Grouped	
3004 Payload	OctetString	
3005 Action-Type	Enumerated	29.368
3006 Priority-Indication	Enumerated	[27]
3007 Reference-Number	Unsigned32	[21]
3008 Request-Status	Enumerated	
3009 Delivery-Outcome	Enumerated	
3010 Application-Port-Identifier	Unsigned32	
3011 Old-Reference-Number	Unsigned32	
3012 Feature-Supported-In-Final-Target	Unsigned32	
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.		
3100 IP-SM-GW-Number	OctetString	
3101 IP-SM-GW-Name	DiameterIdentity	
3102 User-Identifier	Grouped	
3103 Service-ID	Enumerated	
3104 SCS-Identity	OctetString	
3105 Service-Parameters	Grouped	
3106 T4-Parameters	Grouped	
3107 Service-Data	Grouped	
3108 T4-Data	Grouped	
3109 HSS-Cause	Unsigned32	
3110 SIR-Flags	Unsigned32	
3111 External-Identifier	UTF8String	29.336
3112 IP-SM-GW-Realm	DiameterIdentity	[28]
3113 AESE-Communication-Pattern	Grouped	ر د د د د د د د د د د د د د د د د د د د
3114 Communication-Pattern-Set	Grouped	
3115 Periodic-Communication-Indicator	Unsigned32	
3116 Communication-Duration-Time	Unsigned32	
3117 Periodic-Time	Unsigned32	
3118 Scheduled-Communication-Time	Grouped	
3119 Stationary-Indication	Unsigned32	
		
3120 AESE-Communication-Pattern-Config-Status	Grouped	
3121 AESE-Error-Report	Grouped	
3122 Monitoring-Event-Configuration	Grouped	
3123 Monitoring-Event-Report	Grouped	

2424 CCEE Deference ID	Lingiana d22
3124 SCEF-Reference-ID 3125 SCEF-ID	Unsigned32 DiameterIdentity
3126 SCEF-Reference-ID-for-Deletion	Unsigned32
3127 Monitoring-Type	Unsigned32
3128 Maximum-Number-of-Reports	Unsigned32
3129 UE-Reachability-Configuration	Grouped
3130 Monitoring-Duration	Time
3131 Maximum-Detection-Time	Unsigned32
3132 Reachability-Type	Unsigned32
3133 Maximum-Latency	Unsigned32
3134 Maximum-Response-Time	Unsigned32
3135 Location-Information-Configuration	Grouped
3136 MONTE-Location-Type	Unsigned32
3137 Accuracy	Unsigned32
3138 Association-Type	Unsigned32
3139 Roaming-Information	Unsigned32
3140 Reachability-Information 3141 IMEI-Change	Unsigned32 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 3161 NIDD-Authorization-Update	Time
3162 Loss-Of-Connectivity-Reason	Grouped 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 Crowned
3180 PDN-Connectivity-Status-Configuration 3181 PDN-Connectivity-Status-Report	Grouped Grouped
3181 PDN-Connectivity-Status-Report 3182 PDN-Connectivity-Status-Type	Unsigned32
3183 Traffic-Profile	Unsigned32
3184 Updated-Network-Configuration	Grouped
3185 Battery-Indicator	Unsigned32
3186 SCEF-Reference-ID-Ext	Unsigned64
3187 SCEF-Reference-ID-for-Deletion-Ext	Unsigned64
Note: The AVP codes from 3188 to 3199 are reserved for TS 29	

3200 SM-Delivery-Outcome-T4	Enumerated			
3201 Absent-Subscriber-Diagnostic-T4	Enumerated	29.337		
3202 Trigger-Action	Unsigned32	[29]		
3203 MTC-Error-Diagnostic	Unsigned32			
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.				
3300 SC-Address	OctetString			
3301 SM-RP-UI	OctetString			
3302 TFR-Flags	Unsigned32			
3303 SM-Delivery- Failure-Cause	Grouped			
3304 SM-Enumerated-Delivery-Failure-Cause	Enumerated			
3305 SM-Diagnostic-Info	OctetString			
3306 SM-Delivery-Timer 3307 SM-Delivery-Start-Time	Unsigned32 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 3325 HSS-ID	Unsigned32 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 3341 SMSF-Non-3GPP-Name	DiameterIdentity DiameterIdentity			
3342 SMSF-3GPP-Realm	DiameterIdentity	 		
3343 SMSF-Non-3GPP-Realm	DiameterIdentity			
3344 SMSF-3GPP-Address	Grouped			
3345 SMSF-Non-3GPP-Address	Grouped			
Note: The AVP codes from 3346 to 3399 are reserved for TS 29.338.	Crouped			
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			
3406 MTC-IWF-Address	Address	32.299 [5]		
3407 SM-Device-Trigger-Indicator	Enumerated			
3408 SM-Sequence-Number	Unsigned32			
3409 SMS-Result	Unsigned32			
3410 VCS-Information	Grouped			
3411 Basic-Service-Code	Grouped	 		
3412 Bearer-Capability	OctetString			

	Teleservice	OctetString	
	ISUP-Location-Number	OctetString	
	Forwarding-Pending	Enumerated	
	ISUP-Release-Cause	Unsigned32	
	MSC-Address	OctetString	
	Network-Call-Reference-Number	OctetString	
	Start-of-Charging	Time	
	VLR-Number	OctetString Enumerated	
	CN-Operator-Selection-Entity ISUP-Cause-Diagnostics	OctetString	
	ISUP-Cause-Location	Unsigned32	
	ISUP-Cause-Value	Unsigned32	
	EPDG-Address	Address	
	Announcing-UE-HPLMN-Identifier	UTF8String	
	Announcing-UE-VPLMN-Identifier	UTF8String	
	Coverage-Status	Enumerated	
	Layer-2-Group-ID	OctetString	
	Monitored-PLMN-Identifier	UTF8String	
	Monitoring-UE-HPLMN-Identifier	UTF8String	
	Monitoring-UE-Identifier	UTF8String	
3433	Monitoring-UE-VPLMN-Identifier	UTF8String	
	ProSe-PC3-Control-Protocol-Cause	Integer32	
	ProSe-PC3-EPC-Control-Protocol-Cause	Integer32	
	Requested-PLMN-Identifier	UTF8String	
	Requestor-PLMN-Identifier	UTF8String	
	Role-Of-ProSe-Function	Enumerated	
	Usage-Information-Report-Sequence-Number	Integer32	
	ProSe-3rd-Party-Application-ID	UTF8String	
	ProSe-Direct-Communication-Transmission-Data-Container	Grouped	
	ProSe-Direct-Discovery-Model	Enumerated	
	ProSe-Event-Type	Enumerated	
	ProSe-Function-IP-Address	Address	
	ProSe-Functionality ProSe-Group-IP-Multicast-Addresses	Enumerated Address	
	ProSe-Information	Grouped	
	ProSe-Range-Class	Enumerated	
	ProSe-Reason-For-Cancellation	Enumerated	
	ProSe-Request-Timestamp	Time	
	ProSe-Role-Of-UE	Enumerated	
	ProSe-Source-IP-Address	Address	
	ProSe-UE-ID	OctetString	
	Proximity-Alert-Indication	Enumerated	
	Proximity-Alert-Timestamp	Time	
	Proximity-Cancellation-Timestamp	Time	
	ProSe-Function-PLMN-Identifier	UTF8String	
3458	Application-Specific-Data	OctetString	
	Coverage-Info	Grouped	
	Location-Info	Grouped	
	ProSe-Direct-Communication-Reception-Data-Container	Grouped	
	Radio-Frequency	OctetString	
	Radio-Parameter-Set-Info	Grouped	
	Radio-Parameter-Set-Values	OctetString	
	Radio-Resources-Indicator	Integer32	
	Time-First-Reception	Time	
	Time-First-Transmission	Time	
	Transmitter-Info	Grouped	
	The AVP codes from 3469 to 3499 are reserved for TS 32.299.	Addross	
	BMSC-Address BMSC-Port	Address Unsigned32	
	MBMS-Bearer-Event	Unsigned32 Unsigned32	
	MBMS-Bearer-Event MBMS-Bearer-Event-Notification	Grouped	29.468
	MBMS-Bearer-Request	Grouped	29.468 [31]
	MBMS-Bearer-Response	Grouped	[01]
	MBMS-Bearer-Result	Unsigned32	
	MBMS-Start-Time	Time	
5501	memo otari rimo	TITIO	

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3508 Radio-Frequency	Unsigned32	
3509 TMGI-Allocation-Request	Grouped	
3510 TMGI-Allocation-Response	Grouped	
3511 TMGI-Allocation-Result	Unsigned32	
3512 TMGI-Deallocation-Request	Grouped	
3513 TMGI-Deallocation-Response	Grouped	
3514 TMGI-Deallocation-Result	Unsigned32	
3515 TMGI-Expiry	Grouped	
3516 TMGI-Number	Unsigned32	
3517 MB2U-Security	Unsigned32	
3518 Local-M1-Information	Grouped	
3519 Local-MB2-U-Information	Grouped	
3520 MBMS-eNB-IP-Multicast-Address	Address	
3521 MBMS-eNB-IPv6-Multicast-Address	Address	
3522 MBMS-GW-SSM-IP-Address	Address	
3523 MBMS-GW-SSM-IPv6-Address	Address	
3524 Common-Tunnel-Endpoint-Identifier	OctetString	
3525 FEC-Request	OctetString	
3526 ROHC-Request	Grouped	
3527 ROHC-Full-Header-Periodicity	Float32	
3528 ROHC-Profile	Unsigned32	
3529 Userplane-Protocol-Result	Grouped	
3530 ROHC-Result	Unsigned32	
3531 FEC-Result	Unsigned32	
3532 ROHC-Max-CID	Unsigned32	
Note: The AVP codes from 3533 to 3599 are reserved for TS 29.468.	Unagnedoz	
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	[52]
3608 ProSe-Code-Suffix-Mask	Grouped	
3609 Suffix-Code	OctetString	
3610 Suffix-Mask	OctetString	
3611 Banned-User-Target	Grouped	
3612 Metadata-Indicator	Unsigned32	
Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343.	Onoignede2	ļ.
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	[33]
3706 PNR-Flags	Unsigned32	
3707 ProSe-Initial-Location-Information	Grouped	
3708 Authorized-Discovery-Range	Unsigned32	
Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344.		
3800 Reserved		
3801 App-Layer-User-Id	UTF8String	
3802 Assistance-info	Grouped	
3803 Assistance-Info-Validity-Timer	Unsigned32	
3804 Discovery-Type	Unsigned32	
	OctetString	
3805 Filter-Id		
3805 Filter-Id 3806 MAC-Address		
3806 MAC-Address	UTF8String	20.245
3806 MAC-Address 3807 Match-Report	UTF8String Grouped	29.345
3806 MAC-Address 3807 Match-Report 3808 Operating-Channel	UTF8String Grouped Unsigned32	29.345 [34]
3806 MAC-Address 3807 Match-Report 3808 Operating-Channel 3809 P2P-Features	UTF8String Grouped Unsigned32 Unsigned32	
3806 MAC-Address 3807 Match-Report 3808 Operating-Channel 3809 P2P-Features 3810 ProSe-App-Code	UTF8String Grouped Unsigned32 Unsigned32 UTF8String	
3806 MAC-Address 3807 Match-Report 3808 Operating-Channel 3809 P2P-Features 3810 ProSe-App-Code 3811 ProSe-App-Id	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String	
3806 MAC-Address 3807 Match-Report 3808 Operating-Channel 3809 P2P-Features 3810 ProSe-App-Code 3811 ProSe-App-Id 3812 ProSe-App-Mask	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String UTF8String	
3806 MAC-Address 3807 Match-Report 3808 Operating-Channel 3809 P2P-Features 3810 ProSe-App-Code 3811 ProSe-App-Id 3812 ProSe-App-Mask 3813 ProSe-Discovery-Filter	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Grouped	
3806 MAC-Address 3807 Match-Report 3808 Operating-Channel 3809 P2P-Features 3810 ProSe-App-Code 3811 ProSe-App-Id 3812 ProSe-App-Mask 3813 ProSe-Discovery-Filter 3814 PRR-Flags	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Grouped Unsigned32	
3806 MAC-Address 3807 Match-Report 3808 Operating-Channel 3809 P2P-Features 3810 ProSe-App-Code 3811 ProSe-App-Id 3812 ProSe-App-Mask 3813 ProSe-Discovery-Filter	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Grouped	

	T	
3816 Requesting-EPUID	UTF8String	
3817 Targeted-EPUID	UTF8String	
3818 Time-Window	Unsigned32	
3819 WiFi-P2P-Assistance-Info	Grouped	
3820 WLAN-Assistance-Info	Grouped	,
3821 WLAN-Link-Layer-Id	OctetString	
3822 WLAN-Link-Layer-Id-List	Grouped	
3823 Location-Update-Trigger	Grouped	
3824 Location-Update-Event-Type	Unsigned32	·
3825 Change-Of-Area-Type	Grouped	·
3826 Location-Update-Event-Trigger	Unsigned32	
3827 Report-Cardinality	Enumerated	,
3828 Minimum-Interval-Time	Unsigned32	,
3829 Periodic-Location-Type	Grouped	,
3830 Location-Report-Interval-Time	Unsigned32	•
3831 Total-Number-Of-Reports	Unsigned32	
3832 Validity-Time-Announce	Unsigned32	
3833 Validity-Time-Monitor	Unsigned32	
3834 Validity-Time-Communication	Unsigned32	
3835 ProSe-App-Code-Info	Grouped	
3836 MIC	OctetString	
3837 UTC-based-Counter	Unsigned32	
3838 ProSe-Match-Refresh-Timer	Unsigned32	
3839 ProSe-Metadata-Index-Mask	OctetString	
3840 App-Identifier	Grouped	
3841 OS-ID	OctetString	
3842 OS-App-ID	UTF8String	
	UTF8String	
3843 Requesting-RPAUID		
3844 Target-RPAUID	UTF8String	
3845 Target-PDUID	OctetString	
3846 ProSe-Restricted-Code	OctetString	
3847 ProSe-Restricted-Code-Suffix-Range	OctetString	
3848 Beginning-Suffix	OctetString	
3849 Ending-Suffix	OctetString	
3850 Discovery-Entry-ID	Unsigned32	
3851 Match-Timestamp	Time	
3852 PMR-Flags	Unsigned32	,
3853 ProSe-Application-Metadata	UTF8String	
3854 Discovery-Auth-Request	Grouped	
3855 Discovery-Auth-Response	Grouped	
3856 Match-Request	Grouped	
3857 Match-Report-Info	Grouped	
3858 Banned-RPAUID	UTF8String	
3859 Banned-PDUID	OctetString	
3860 Code-Receiving-Security-Material	Grouped	,
3861 Code-Sending-Security-Material	Grouped	,
3862 DUSK	OctetString	•
3863 DUIK	OctetString	
3864 DUCK	OctetString	
3865 MIC-Check-indicator	Unsigned32	
3866 Encrypted-Bitmask	OctetString	
3867 ProSe-App-Code-Suffix-Range	OctetString	
3868 PC5-tech	OctetString	
Note: The AVP codes from 3869 to 3899 are reserved for TS 29.345.	, Joiototanig	<u> </u>
3900 Reserved		
3901 Enhanced-Diagnostics	Grouped	
3902 Inter-UE-Transfer	Enumerated	
3903 TWAG-Address	Address	
3904 Announcement-Information	Grouped	
		22 200 [5]
3905 Announcement-Identifier	Unsigned32	32.299 [5]
3906 Announcement-Order	Unsigned32	
3907 Variable-Part	Grouped	
3908 Variable-Part-Order	Unsigned32	•
3909 Variable-Part-Type 3910 Variable-Part-Value	Unsigned32	
13014010 (orioble Dort Volus	UTF8String	

13011 Time-Indicator	
	signed32
	umerated
	umerated
	F8String
	umerated
	F8String
	rouped
	rouped
	teger32
	rouped
	rouped
	teger32
	signed32
	tetString
	rouped
	rouped
	rouped
	rouped
	eterIdentity
	umerated
	umerated
	umerated
	rouped
	rouped
	rouped
	umerated
	signed32
	signed32
	signed32
	rouped
	ddress
	eterIdentity
Note: The AVP codes from 3943 to 3999 are reserved for TS 32.299.	
	rouped
	rouped
	rouped
	signed32
	signed32
	signed32
	rouped 29.217
	signed32 [35]
	tetString
	tetString
	eterIdentity
	signed32
	signed32
	tetString
Note: The AVP codes from 4014 to 4099 are reserved for TS 29.217.	
	rouped 29.153
	signed32 [37]
Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.	
	tetString
	tetString
4203 Transfer-Request-Type Uns	signed32
	
4204 Time-Window G	rouped
4204 Time-Window G 4205 Transfer-End-Time	Time
4204 Time-Window G 4205 Transfer-End-Time 4206 Transfer-Start-Time	Time Time
4204Time-WindowG4205Transfer-End-Time4206Transfer-Start-Time4207Transfer-PolicyG	Time Time rouped 29.154
4204 Time-Window G 4205 Transfer-End-Time G 4206 Transfer-Start-Time G 4207 Transfer-Policy G 4208 Transfer-Policy-Id Uns	Time Time rouped 29.154 signed32 [38]
4204 Time-Window G 4205 Transfer-End-Time 4206 Transfer-Start-Time 4207 Transfer-Policy G 4208 Transfer-Policy-Id Uns 4209 Number-Of-UEs Uns	Time Time rouped 29.154 signed32 [38] signed32
4204 Time-Window G 4205 Transfer-End-Time G 4206 Transfer-Start-Time G 4207 Transfer-Policy G 4208 Transfer-Policy-Id Uns 4209 Number-Of-UEs Uns 4210 Access-Network-Reports G	Time Time 29.154 signed32 signed32 rouped
4204 Time-Window G 4205 Transfer-End-Time Fransfer-End-Time 4206 Transfer-Start-Time G 4207 Transfer-Policy G 4208 Transfer-Policy-Id Uns 4209 Number-Of-UEs Uns 4210 Access-Network-Reports G 4211 Event-Configuration G	Time Time 29.154 signed32 [38] signed32 rouped rouped
4204 Time-Window G 4205 Transfer-End-Time 9 4206 Transfer-Start-Time 9 4207 Transfer-Policy G 4208 Transfer-Policy-Id Uns 4209 Number-Of-UEs Uns 4210 Access-Network-Reports G 4211 Event-Configuration G 4212 Event-Configuration-State Uns	Time Time 29.154 signed32 signed32 rouped rouped signed32
4204 Time-Window G 4205 Transfer-End-Time	Time Time 29.154 signed32 [38] signed32 rouped rouped

4215 Event-Reports	Grouped	
4216 Extended-SCEF-Reference-ID	Unsigned64	
Note: The AVP codes from 4217 to 4299 are reserved for TS 29.154.	Unsignedo+	
4300 Communication-Failure-Information	Grouped	
4301 Cause-Type	Unsigned32	
4302 S1AP-Cause	Unsigned32	
4303 RANAP-Cause	Unsigned32	
4304 GMM-Cause	Unsigned32	
4305 SM-Cause	Unsigned32	
4306 Number-of-UE-Per-Location-Configuration	Grouped	
4307 Number-of-UE-Per-Location-Report	Grouped	
4308 UE-Count	Unsigned32	
4309 BSSGP-Cause	Unsigned32	
4310 Serving-PLMN-Rate-Control	Grouped	
4311 Uplink-Rate-Limit	Unsigned32	
4312 Downlink-Rate-Limit	Unsigned32	
4313 Extended-PCO	OctetString	
4314 Connection-Action	Unsigned32	
4315 Non-IP-Data	OctetString	29.128
4316 SCEF-Wait-Time	Time	[36]
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	
4326 APN-Rate-Control-Status	Grouped	
4327 Uplink-Number-Of-Packets-Allowed	Unsigned32	
4328 Number-Of-Additional-Exception-Reports	Unsigned32	
4329 Downlink-Number-Of-Packets-Allowed	Unsigned32	
4330 APN-Rate-Control-Status-Validity-Time	Unsigned64	
Note: The AVP codes from 4331 to 4399 are reserved for TS 29.128.		1
4400 Charging-Per-IP-CAN-Session-Indicator	Enumerated	
4401 Access-Network-Info-Change	Enumerated	
4402 Discoveree-UE-HPLMN-Identifier	UTF8String	
4403 Discoveree-UE-VPLMN-Identifier	UTF8String	
4404 Discoverer-UE-HPLMN-Identifier	UTF8String	
4405 Discoverer-UE-VPLMN-Identifier	UTF8String	
4406 3GPP-PS-Data-Off-Status	Enumerated	00 000 [5]
4407 Unused-Quota-Timer	Unsigned32	32.299 [5]
4408 Announcing-PLMN-ID	UTF8String	
4409 ProSe-UE-to-Network-Relay-UE-ID	OctetString	
4410 ProSe-Target-Layer-2-ID	OctetString	
4411 Relay-IP-address	Address	
4412 Target-IP-Address	Address	
4413 FE-Identifier-List	UTF8String	
Note: The AVP codes from 4414 to 4499 are reserved for TS 32.299		
4500 MCPTT-ID	UTF8String	
4501 Data-Identification	Grouped	
4502 Data-Identification-Prefix	Unsigned32	
4503 Data-Identification-Flags	Unsigned64	
4504 DPR-Flags	Unsigned32	
4505 DPA-Flags	Unsigned32	
4506 DUR-Flags	Unsigned32	20.000
4507 DUA-Flags	Unsigned32	29.283
4508 NDR-Flags	Unsigned32	[39]
4509 NDA-Flags	Unsigned32	
4510 User-Data-Id	Unsigned32	
	Onoignous	
4511 MC-Service-User-Profile-Data	Grouped	
4511 MC-Service-User-Profile-Data	Grouped	
4511 MC-Service-User-Profile-Data 4512 Sequence-Number	Grouped Unsigned32	

Note: The AVP codes from 4515 to 4599 are reserved for TS 29.2	283.		
4600 V2X-PC5-Allowed-PLMN	Grouped		
4601 V2X-Update-Flags Unsigned32			
4602 V2X-Notify-Flags	Unsigned32	29.388	
4603 PLMN-Allowed-PC5-RATs	Grouped	[40]	
4604 PC5-RAT-Type	Enumerated		
Note: The AVP codes from 4605 to 4799 are reserved for TS 29.388.			
4700 V2X-Authorization-Data Grouped			
4701 V2X-Permission-in-VPLMN	4701 V2X-Permission-in-VPLMN Unsigned32		
4702 V2X-Application-Server	Grouped	[41]	
Note: The AVP codes from 4703 to 4799 are reserved for TS and TS 29.389.			
		29.561	
		[42]	
Note: The AVP codes from 4800 to 4999 are reserved for TS and	TS 29.561.	•	

8 Experimental result codes

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

8.1 3GPP specific result codes

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

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

8.1.1 Informational

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

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

8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

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

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result 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	9.329.	
4121	DIAMETER_ERROR_OUT_OF_RESOURCES		29.061 [13]
Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29	9.061.	
4141	DIAMETER_PCC_BEARER_EVENT		
4142	DIAMETER_BEARER_EVENT		
4143	DIAMETER_AN_GW_FAILED		29.212 [19]
4144	DIAMETER_PENDING_TRANSACTION		
4145	DIAMETER_UE_STATUS_SUSPEND		
Note: The Experime	ntal Result Codes from 4146 to 4160 are reserved for the TS 29	9.212	
			32.299 [5]
	ntal Result Codes from 4161 to 4180 are reserved for the TS 32	2.299.	<u>.</u>
	ER_AUTHENTICATION_DATA_UNAVAILABLE		29.272 [21]
	ER_ERROR_CAMEL_SUBSCRIPTION_PRESENT		29.272 [21]
	It Codes from 4182 to 4200 are reserved for the TS 29.272.		
-	ER_ERROR_ABSENT_USER		29.173 [25]
Note: The Experimental Resu	It Codes from 4202 to 4220 are reserved for the TS 29.173.		
	ER_ERROR_UNREACHABLE_USER		
	ER_ERROR_SUSPENDED_USER		
	ER_ERROR_DETACHED_USER		29.172 [24]
	ER_ERROR_POSITIONING_DENIED	•	20.172 [24]
	ER_ERROR_POSITIONING_FAILED		
	ER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT		
	It Codes from 4227 to 4240 are reserved for the TS 29.172.		
l.	ER_ERROR_NO_AVAILABLE_POLICY_COUNTERS		29.219 [26]
	It Codes from 4242 to 4260 are reserved for the TS 29.219.		
-	STED_SERVICE_TEMPORARILY_NOT_AUTHORIZED		29.214 [18]
Note: The Experimental Resu	It Codes from 4262 to 4280 are reserved for the TS 29.214.		

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED]
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED]
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED]
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED]
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5008	DIAMETER_ERROR_TOO_MUCH_DATA]
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA]
5010	unassigned	
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED	
5012	DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUP PORTED	
Note: The Expe	erimental Result Codes from 5013 to 5020 are reserved for the	ΓS 29.229.
		32.299 [5]
Note: The Expe	erimental Result Codes from 5021 to 5040 are reserved for the	ΓS 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	DIAMETER ERROR USER NO W-APN SUBSCRIPTION	
5045	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	
5064	DUPLICATED_AF_SESSION	29.209 [8],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.211 [17] ,
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	29.214 [18]
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
5068	TEMPORARY_NETWORK_FAILURE	
	erimental Result Codes from 5069 to 5080 are reserved for TS 2	9.209. TS 29.211
•	TS 29.214.	
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED]
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIE D	29.329 [4]
5105	DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	erimental Result Codes from 5109 to 5119 are reserved for the	L LS 29 329
. toto. The Expe	F120 DIAMETED EDDOR START INDICATION	

5120 DIAMETER_ERROR_START_INDICATION
5121 DIAMETER_ERROR_STOP_INDICATION
5122 DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVI 29.061 [13]

CE
5123 DIAMETER_ERROR_SERVICE_AREA

Note: The Experimental Result Codes from 5124 to 5139 are reserved for the TS 29.061.		
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	
	D	29.212 [19]
5145	DIAMETER_QOS_RULE_EVENT	
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
5148	DIAMETER_ADC_RULE_EVENT	
5149	DIAMETER_ERROR_NBIFOM_NOT_AUTHORIZED	
Note: The Expe	erimental Result Codes from 5150 to 5159 are reserved for the 1	TS 29.212.

5401	DIAMETER_ERROR_IMPI_UNKNOWN	
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALI	29.109 [7
	D	
Note: The Expe	erimental Result Codes from 5404 to 5419 are reserved for the 1	S 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	
Note: The Expo	erimental Result Codes from 5424 to 5449 are reserved for the 1	S 29.272.
5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI	
	ON	
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	20 272 [20]
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	29.273 [20]
5453	DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST	
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST	
Note: The Expo	erimental Result Codes from 5455 to 5469 are reserved for the T	S 29.273.

ntal Result Codes	from 5455 to 5469 are reserved for the TS 29.273.	
5470	DIAMETER_ERROR_SUBSESSION	
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME NT	29.215 [22]
Note: The Expe	erimental Result Codes from 5472 to 5489 are reserved for the	TS 29.215.
5490	DIAMETER ERROR UNAUTHORIZED REQUESTING NET	
	WORK	29.173 [25]
Note: The Expe	erimental Result Codes from 5491 to 5509 are reserved for the	TS 29.173.
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENT	
5511	ITY DIAMETER ERROR UNAUTHORIZED SERVICE	-
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE DIAMETER ERROR REQUESTED RANGE IS NOT	-
5512	ALLOWED	
5513	DIAMETER_ERROR_CONFIGURATION_EVENT_STORAG E_NOT_SUCCESSFUL	29.336 [28]
5514	DIAMETER_ERROR_CONFIGURATION_EVENT_NON_EXISTANT	
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	1
5516	DIAMETER_ERROR_UNAUTHORIZED_MTC_PROVIDER	1
Note: The Expe	erimental Result Codes from 5517 to 5529 are reserved for the	TS 29.336.
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	
5531	DIAMETER_ERROR_SC_CONGESTION	=
5532	DIAMETER_ERROR_SM_PROTOCOL	=
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	29.337 [29]
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5535	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDIN G	
Note: The Expe	erimental 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	=
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5553	DIAMETER ERROR ILLEGAL USER	
5554	DIAMETER_ERROR_ILLEGAL_EQUIPMENT	29.338 [30]
5555	DIAMETER_ERROR_SM_DELIVERY_FAILURE	20.000 [00]
5556	DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED	1
5557	DIAMETER_ERROR_SERVICE_BARRED	1
5558	DIAMETER ERROR MWD LIST FULL	1
	erimental Result Codes from 5559 to 5569 are reserved for the	TS 20 338
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
	Experimental Result Codes from 5571 to 5589 are reserved fo	
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	1 1115 1 5 2 3. 2 1 3.
5590	DIAMETER ERROR TARGET ALUID UNKNOWN	1
5592	DIAMETER_ERROR_PFID_UNKNOWN	1
		-
5593 5504	DIAMETER_ERROR_APP_REGISTER_REJECT DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOW	1
5594	ED	29.343 [32]
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	
5596	DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN	
5597	DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_S ET	
	<u>-</u> ·	1

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	
Note: The Expe	erimental Result Codes from 5603 to 5609 are reserved for the	ΓS 29.343.
5610	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION	
5611	DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]
5612	DIAMETER_ERROR_UE_LOCATION_UNKNOWN	
	erimental Result Codes from 5613 to 5629 are reserved for the	TS 29.344.
5630	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT	
	ER	
5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_	
	PLMN	
5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE	
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	
5634	DIAMETER_ERROR_PROXIMITY_REJECTED	
5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	29.345 [34]
5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS	29.343 [34]
	_PLMN	
5637	DIAMETER_ERROR_PROXIMITY_CANCELLED	
5638	DIAMETER_ERROR_INVALID_TARGET_PDUID	
5639	DIAMETER_ERROR_INVALID_TARGET_RPAUID	
5640	DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO	
	DE	
5641	DIAMETER_ERROR_INVALID_DISCOVERY_TYPE	
Note: The Expe	erimental Result Codes from 5642 to 5649 are reserved for the	ΓS 29.345.
5650	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SER	
	VED	
5651	DIAMETER_ERROR_INVALID_EPS_BEARER	
5652	DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAIL	29.128 [36]
	ABLE	
5653	DIAMETER_ERROR_USER_TEMPORARILY_UNREACHAB	
	LE	
Note: The Expe	erimental Result Codes from 5654 to 5669 are reserved for the	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	20 200 [40]
5691	DIAMETER_ERROR_V2X_NOT_ALLOWED	29.388 [40]
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

Date	TSG #	TSG Doc.	CR	Rev	Ca t	Subject/Comment	New
2004-06	CN#24	NP-040292				Version 2.0.0 presented for information and approval	6.0.0
2004-09	CN#25	NP-040401	001			Correction of Charging application reference	6.1.0
2004-09	CN#25	NP-040401	002			Correction of the Application-Id code	6.1.0
2004-09	CN#25	NP-040401	003			Removal of User Data Request Type AVP	6.1.0
2004-09	CN#25	NP-040412	004	1		Re-numbering of 3GPP specific AVP codes.	6.1.0
2004-12	CN#26	NP-040579	006			Inclusion of missing Cx AVPs	6.2.0
2004-12	CN#26	NP-040580	007	1		Reservation of command code 310	6.2.0
2004-12	CN#26	NP-040579	009	1		Addition of Gmb interface	6.2.0
2004-12	CN#26	NP-040600	010	2		Documenting the Reuse of the 3GPP specific application	6.2.0
2007 12	014/1/20	141 040000	0.10	_		identifier of Ro for Re on the Charging Interfaces	0.2.0
2004-12	CN#26	NP-040579	011			Gq interface allocations	6.2.0
2004-12	CN#26	NP-040579				Addition of Gx interface	6.2.0
2005-03	CN#27	NP-050047	040	1		WLAN Diameter AVP and result codes	6.3.0
2005-05	CIN#Z1	NP-050039	043	-		Allocations for Gx interface	0.3.0
							_
		NP-050039				Allocations for Gmb interface	
2225 22	OT#00	NP-050039				Allocations for MMS, MM10 Interface	0.40
2005-06	CT#28	CP-050088				Gx interface allocation correction	6.4.0
		CP-050196		1		Addition of Maximum-Number-Accesses AVP	
2005-09	CT#29	CP-050440		1		Private identities on the Cx	6.5.0
		CP-050310				Addition of Pr reference point to TS 29.230	
		CP-050310	0054			Error code cleanup	
		CP-050310	0056			Addition of Rx ref. point and renaming of Experimental	
						Result Codes	
2005-09	CT#29	CP-050317	0055			Addition of GUSS timestamp AVP	7.0.0
2005-12	CT#30	CP-050624	0058			Addition of GBA-Type AVP	7.1.0
		CP-050612	0063			Additional Gmb AVP Allocation	_
		CP-050612				Reservation of AVP codes for 32.299	
		CP-050625				Management of Sh subscriptions	
2006-03	CT#31	CP-060073				Adding data type of some of WLAN-related AVPs	7.2.0
2000 00	01//01	CP-060084				User-Data in the response to Sh-Subs-Notif	1 .2.0
		CP-060084		1		New error indications for the Sh-Subs-Notif procedure	
2006-06	CT#32	CP-060302		1		S-CSCF reselection removal	720
				2			7.3.0
2006-09	CT#33	CP-060417		3		New AVP Code	7.4.0
		CP-060417				Errors to be sent in response to Sh-Notif	
	07.10.4	CP-060417				Definition of specific Diameter codes for DSAI	
2006-12	CT#34	CP-060566		1		Optimization of handling of Wildcarded PSIs	7.5.0
		CP-060562	0086			Addition of Diameter Error Code for Emergency Purposes	
		CP-060555				Allocation of new AVP codes for Gmb	
		CP-060555				AVP code allocations for Rf and Ro interfaces	
		CP-060566	0091			Allocation of Success Result Code Range for Gi Interface	
2007-03	CT#35	CP-070020	0093			C3 requested addition of new AVP code values to 3GPP TS 29.230	7.6.0
		CP-070020	0093			Allocation of new AVP code for DSAI-Tag AVP	
		CP-070020	0093			Allocation of Experimental-Result-Code AVP for Gi	1
						Interface	
2007-06	CT#36	CP-070318	0096			Diameter application ID for the Rel-7 Rx interface	7.7.0
		CP-070312				Experimental-Result-Codes for Gmb interface	1
		CP-070312				Correction of Diameter AVP code allocation	1
2007-09	CT#37	CP-070527	0102			Application ID for Gx protocol	7.8.0
2007-03	CT#38	CP-070743				AVP code reservation for 32.299 in Rel-7	7.9.0
2007-12	01#30	C1 -070743	0105			Allocation of 3GPP specific AVP codes and Experimental	7.3.0
			0103			Result Codes for Gx protocol	
2007-12	CT#38	CP-070755	0101	4		AVP assignments to support SIP Digest Authentication	8.0.0
2007-12	01#30	C1 -070733	0103	4			0.0.0
2000 02	CT#20	CD 000045		-		AVP code reservation for 32.299 in Rel-8	010
2008-03	CT#39	CP-080015				Correction of reference to TS 29.140	8.1.0
		CP-080019		<u> </u>	-	AVP code reservation for TS 32.299 in Rel-8	-
		CP-080019		ļ. —		Wildcarded Public User Identities	4
		CP-080191	0112	1		Correction on AVP code allocation reservation for TS	1
						32.299 in Rel-7	1
		CP-080204	0113	1		Correction on AVP code allocation reservation for TS 32.299	
2008-06	CT#40	CP-080267	0117	1		A new Diameter Permanent Failure Code for Gx	8.2.0
2008-09	CT#41	CP-080456				Emergency Public User Identity Removal	8.3.0
2000-09							

	CT#41	CP-080460	0122	1	STaMIP Application Id	1
2008-09 2008-09	CT#41	CP-080463	_		Cx Impacts of IMS Restoration Procedures (New AVP	
					Codes Assignment)	
2008-09	CT#41	CP-080463	0124		New AVP Code Assignment for Forking Service	8.3.0
2000 12	CT#42	CP-080691	0407	2	Restoration	0.4.0
2008-12 2008-12	CT#42		0127 0128		Diameter Protocol Codes Assignments for S6a/S6d/S13 Diameter code assignments for 3GPP TS 29.273	8.4.0 8.4.0
2008-12	CT#42	CP-080091			Update for ReadyForSM	8.5.0
2009-03	CT#43	CP-090044		1	Handling LCS Subscription Data	8.5.0
2009-03	CT#43	CP-090026			Update for Restoration	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.5.0
2009-03	CT#43	CP-090033		2	Appld and command code for Zpn	8.5.0
2009-03	CT#43	CP-090024			AVP codes for S9 protocol	8.5.0
2009-03	CT#43	CP-090024			Diameter AVP Code allocation	8.5.0
2009-03	CT#43	CP-090024		1	Location of Permanent Failure result code range for the S9	8.5.0
	0	0. 00002.	0.10		application	0.0.0
2009-03	CT#43	CP-090024	0141		AVPs for TS 29.273	8.5.0
2009-03	CT#43	CP-090024	0142	1	Error code allocation for authentication failure	8.5.0
2009-06	CT#44	CP-090299	0129	4	Update of the AVP Codes	8.6.0
		CP-090299	0143		AVP code reservation for TS 32.299	
		CP-090299	0145		Diameter Command Codes for S6a/S6d/S13/S13'	
			0146		Removal of Requesting Node Type from AIR	
		CP-090299			S6b Application ID	
2009-09	CT#45		0149		Allocation of Experimental-Result-Codes for S9 protocol	8.7.0
		CP-090530			AVP code allocation for TS 29.212	
		CP-090531	0150		Update of the AVP type for the User-Id	
		CP-090531	0153		Trace Depth per session	
2009-09	CT#45	CP-090557	0148		AVP code range for charging	9.0.0
2009-12	CT#46	CP-090800	0154	1	ICS-Flag	9.1.0
		CP-091032	0156		From GMLC-Address to GMLC-Number	
			0160 0163	2	Session-Priority AVP Introduction of SLh application related AVPs and	
			0103	2	Experimental Result codes	
			0166		Missing AVP error codes	1
		CP-090797	0167	1	Introduction of SLg application related AVPs and	1
					Application Identifier	
2010-03	CT#47	CP-100031	0158	1	Wildcarded Public Identity	9.2.0
		CP-100034	0168	1	Correction on AVP code allocation reservation for TS	
					32.299 in Rel-9	ļ
		CP-100046		1	AVP code allocation for 29.172	
		CP-100036			GPL_U support in TS 29.109	
		CP-100046 CP-100048		1	Error codes in 29.172 for SLg	
		CP-100046	0174	1	AVPs in 29.272 for TADS support Error codes in 29.272 for Unknown MME	1
		CP-100040	0176	4	EPS Subcsriber State and Location Information Request	-
		CP-100033		7	One time notification AVP allocation	
		CP-100046			Addition of the LCS-QoS-Class attribute value	1
		CP-100175	0182		Introduction of the LCS-Capabilities-Sets AVP in SLh	ĺ
					interface	
2010-06	CT#48	CP-100263	0188	1	AVP Codes for PCC	9.3.0
			0183		EPS state and location retrieval	ļ
		CP-100287	0186		SGmb Application ID	
	0710	CP-100277	0190		New APVs in S6a protocol	
2010-09	CT#49	CP-100463	0197	1	Addition of Diameter codes and identifiers for the SLg and	9.4.0
		CP-100464	0196		SLh interfaces AVP Codes Allocation for PCC	1
			0130	1	SIPTO Permission Indicator	10.00
2010-00	CT#40		0103			
2010-09	CT#49	CP-100465	0193			10.0.0
2010-09	CT#49	CP-100465 CP-100466	0198	2	Location data including only serving node address	10.0.0
	CT#49 CT#50	CP-100465		2		
		CP-100465 CP-100466 CP-100466	0198 0199	2	Location data including only serving node address AVP for Update-Eff feature	
		CP-100465 CP-100466 CP-100466 CP-100699 CP-100687 CP-100683	0198 0199 0205 0201 0200	1 1	Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA	
		CP-100465 CP-100466 CP-100466 CP-100699 CP-100687 CP-100683 CP-100688	0198 0199 0205 0201 0200 0206	1 1 1 1	Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription	
2010-12	CT#50	CP-100465 CP-100466 CP-100466 CP-100699 CP-100687 CP-100683 CP-100688 CP-100846	0198 0199 0205 0201 0200 0206 0203	1 1 1 1	Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic	10.1.0
2010-12		CP-100465 CP-100466 CP-100466 CP-100699 CP-100687 CP-100683 CP-100688 CP-100846 CP-110051	0198 0199 0205 0201 0200 0206 0203 0212	1 1 1 1	Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction	10.1.0
2010-12	CT#50	CP-100465 CP-100466 CP-100466 CP-100699 CP-100687 CP-100683 CP-100688 CP-100846	0198 0199 0205 0201 0200 0206 0203	1 1 1 1	Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP	10.1.0
2010-12	CT#50	CP-100465 CP-100466 CP-100699 CP-100687 CP-100683 CP-100688 CP-100846 CP-110051 CP-110054	0198 0199 0205 0201 0200 0206 0203 0212 0215	1 1 1 1 1 1	Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs	10.1.0
2010-12	CT#50	CP-100465 CP-100466 CP-100699 CP-100687 CP-100687 CP-100688 CP-100846 CP-110054 CP-110054	0198 0199 0205 0201 0200 0206 0203 0212 0215	1 1 1 1 1 2 2	Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT)	10.1.0
2010-12 2011-03	CT#50	CP-100465 CP-100466 CP-100699 CP-100687 CP-100683 CP-100688 CP-100846 CP-110051 CP-110054 CP-110087 CP-110088	0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209	2 1 1 1 1 1 1 1 2 1 1 2 1 1	Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs	10.1.0
2010-12	CT#50	CP-100465 CP-100466 CP-100699 CP-100687 CP-100683 CP-100688 CP-100846 CP-110054 CP-110054 CP-110087 CP-110088 CP-110088	0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219	2 1 1 1 1 1 1 1 1 2 1 2 1 2	Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration	10.1.0
2010-09 2010-12 2011-03	CT#50	CP-100465 CP-100466 CP-100699 CP-100687 CP-100688 CP-100846 CP-110051 CP-110054 CP-110088 CP-110087 CP-110088 CP-110349 CP-110347	0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0231	2 1 1 1 1 1 1 1 2 1 1 2 1 1	Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup	10.0.0
2010-12 2011-03	CT#50	CP-100465 CP-100466 CP-100699 CP-100687 CP-100683 CP-100688 CP-100846 CP-110054 CP-110054 CP-110087 CP-110088 CP-110088	0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219	2 1 1 1 1 1 1 1 1 2 1 2 1 2	Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration	10.1.0

2011-09 CT#S3 CP-110375 0227 1	
CP-110554 Q244 1	10.4.0
CP-110552 C249 Experimental Result Code Alignment with 29.061	
CP-110555 0252 Failure code and AVP code alignment with 29.212 CP-110722 0257 Priviledged sender Priviledge send	
CT#55	_
CT#53	4
CP-1105F9	11.00
CT#54	11.0.0
2011-12	_
CP-110812 C259 Sy and Sd Application IDs CP-110775 O252 New AVP codes for MBMS IP multicast encapsulation CP-110775 O252 New AVP codes for MBMS IP multicast encapsulation CP-110811 O277 Equivalent PLMN CSG Subscription Request CP-110811 O287 Equivalent PLMN CSG Subscription Request CP-110813 O288 Restoration of Wildcardec-IAMPU AVP	11.1.0
CP-110775 Q262 New AVP codes for MBMS P multicast encapsulation CP-110775 Q265 New AVP codes for MBMS P multicast encapsulation CP-110781 Q271 1 MME-Realm AVP code allocation CP-110781 Q271 1 CP-110781 Q271 1 CP-110781 Q281 1 Restoration of Wildcarded-IMPU AVP Q270 Q281 CP-120025 Q288 CP-120038 Q288 New AVP codes for Absolute Time of MBMS Data Transfer over SGmb CP-120038 Q291 Allocating Diameter AVPs on Initial Attach CP-120038 Q291 Allocating Diameter AVP codes for TS 29.219 and TS Q29.212 Q29	- 11.1.0
CP-110775 Q265 New AVP codes for MBMS IP multicast encapsulation CP-110766 Q271 MME-Realm AVP code allocation CP-110781 Q281 Memoritary CP-110781 Q281 Memoritary CP-110781 Q281 Restoration of Wildcarded-IMPU AVP CP-120028 CP-120028 C288 CP-120038 CP-12038 CP-13038 CP-	+
CP-110786 CP-110786 CP-110781 CP-110781 CP-110781 CP-110781 CP-110781 CP-110781 CP-110781 CP-110781 CP-110781 CP-12025 CP-12025 CP-12025 CP-12025 CP-12025 CP-12028 CP-120038 CP-120038 CP-120038 CP-120038 CP-120038 CP-120038 CP-120038 CP-120281 CP-120481 CP-120481	-
CP-110811 C277	
CP-110781 CP-120025 CP-120025 CP-120025 CP-120025 CP-120038 CP-120039 CP-1	7
CP-120025 CP-80025 CP-80026 CP-120038 CP-120039 CP-120039 CP-120039 CP-120039 CP-120039 CP-120035 CP-120035 CP-120035 CP-120036 CP-120037 CP-120037 CP-120037 CP-120037 CP-120037 CP-120037 CP-120037 CP-120039 CP-120	7
CP-120038 Q288 New AVP codes for Absolute Time of MBMS Data Transfer over SGmb	11.2.0
CP-120038 C291 1	
2012-06 CT#56 CP-120240 0287 5 Codes Allocation for AVPs on NPLI	
2012-06 CT#56 CP-120240 0297 Adding new Diameter AVPs on NPLI CP-120225 0298 1 Adding new Diameter AVPs to Diameter table to support Trusted VILAN Access feature CP-120251 0297 Corrections to reference titles CP-120247 0298 Diameter Code Allocation for TS 29.219 CP-120247 0298 Diameter Code Allocation for TS 29.219 CP-120249 0304 Duplicated AVP names CP-120441 0298 AAA Failure Recovery AVP codes CP-120441 CP-120441 CP-120440 0309 AAA Failure Recovery AVP codes CP-120440 CP-120440 0307 Local Time Zone CP-120440 CP-120741 CP-120741 CP-120741 CP-120741 CP-120741 CP-120740 CP-120740 CP-120741 CP-120740 CP-120741 CP-120	
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CP-120473 Q293 2	
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CP-120667 0312 1 GMLC-Name Reference list correction to align with the corrected TS 29.212 title 2012-12 CT#58 CP-120731 0315 2 T4 device triggering via IMS CP-120731 0324 AVP Code and Identifier Allocation for T4 Specification CP-120731 0324 AVP Code Allocation for 29.336 CP-120731 0329 Diameter AVP code value allocation in TS 29.368 CP-120742 0329 Application Identifier, Command Codes and AVP codes for SGd, S6c CP-120742 0325 UE Time Zone AVP CP-120744 0325 Use of Flag instead of Enumerated AVPs CP-120743 0330 PSI direct routing with restoration procedures CP-120743 0330 PSI direct routing with restoration procedures CP-120743 0334 Diameter error code for TS 29.219 CP-130030 CP-130030 CT#59 CP-130046 CP-130030 CP-130030 CP-130030 CP-130030 CP-130030 CP-130030 CP-130039 CP-130292 CP-130298 CP-130298 CP-130299 CP-130299 CP-130299 CP-130299 CP-130290 CP-130291 CP-130291 CP-130291 CP-130291 CP-130297 CP-130295 CP-130295 CP-130295 CP-130295 CP-130296 CP-130296 CP-130296 CP-130297 CP-130296 CP-130297 CP-130297 CP-130297 CP-130397 CP-130397 CP-130397 CP-130295 CP-130295 CP-130296 CP-130297 CP-130296 CP-130297 CP-130397 CP-130397 CP-130397 CP-130397 CP-130454 CP-130456 CP-130456	`
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CP-130026 O336 MDT parameters	11.00
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CP-130030 O341 Validity Time of Short Message	12.0.0
CT#60	12.0.0
CP-130298 O360 Failure Result Codes Allocation for TS 29.219	12.1.0
CP-130292 O358 Diameter AVP codes for new TS 32.299 AVPs	12.1.0
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CP-130380	-
CP-130291 0348 2 New AVPs for deferred MT-LR and periodic MO-LR TTTF procedures over Lgd interface CP-130297 0347 1 Application Port Identifier CP-130374 0345 1 MTRR on Sh CP-130295 0344 - Restoration Priority during SGW and PGW restoration procedures CP-130378 0349 1 SIPTO permission for Local Network enhancements CP-130461 0366 AVP code reservation for TS 32.299 Rel-12 CP-130460 0368 - Allocation of Diameter codes and identifiers for 29.212 and CP-130460 CP-1304	-
CP-130297 O347 1 Application Port Identifier	\dashv
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CP-130378 O349 SIPTO permission for Local Network enhancements	7
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2013-09				-	Vendor-specific command code for Trigger-Establishment- Request/Answer corrected	12.2.1
2013-12	CT#62	CP-130624	0369	-	New AVP for optimized LCS procedure for combined MME/SGSN	12.3.0
	Ï	CP-130631	0370	1	Adding E-SMLC provided Cell info and Cell Portion	Ì
		CP-130800	0371	-	New AVPs for SMS for IMS UE without MSISDN in TS	
		00 10000			29.338	ļ
		CP-130600		1	Allocation of Diameter codes for 32.299	<u> </u>
		CP-130605 CP-130639		-	Allocation of Diameter codes for 29.212 SGSN CAMEL Subscription Indication	
2014-03	CT#63	CP-130639			Protocol enhancements for the support of device replace	12.4.0
2014 00	01#03	01-140100	0301	_	procedure	12.4.0
		CP-140035	0384	-	New AVP for the support of combined MME/SGSN	ĺ
	İ	CP-140023			Definition of WLAN-related AVPs	Ì
2014-06	CT#64	CP-140211	0385	1	Protocol enhancements to indicate support of device recall and replace by SMS-SC	12.5.0
	Ï	CP-140251			AVP allocation for Error handling, MTC error diagnostic	Ì
		CP-140257		1	SS-Status AVP Definition	
		CP-140252		-	Definition of AVPs for Network Location in TWLAN	ļ
		CP-140236			TWAN-BSSID AVP re-naming	ļ
		CP-140247			New AVPs for Trusted WLAN access	}
2014-09	CT#65	CP-140231 CP-140515			Adding Codes for 29.214 T-GRUU restoration	12.6.0
2014-09	01#00	CP-140515 CP-140517			MB2-C codes	12.0.0
		CP-140505			New AVPs for Trusted WLAN access	İ
		CP-140506			P-CSCF Restoration indication	
		CP-140516			Closing TS 29.234 and reused AVP in TS 29.273]
		CP-140513	0408	-	Identification of the HSS	
					Editorial: WLAN-offloadability AVP codes added as in CR	
	0700	00.44000	0.400		C4-141648.	
2014-12	CT#66	CP-140785		1	New AVP for MBMS restoration	12.7.0
			0430 0410	1	New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection	<u> </u>
			0410		Reset-ID	
			0416		Code definitions for 32.299	
			0428		Removal of I-WLAN AVPs	}
			0429		Reference correction	1
	İ		0433	-	Code allocation for 29.212	Ì
			0418		MDT PLMN List	
			0422		Codes Allocation for PC2 Protocol	ļ
			0423		Codes Allocation for PC4a Protoco	}
			0431	3	Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345	
			0434	1	Command Code and Error Code for ProSe Initial Location Information Retrieval	
			0425	-	Corrections of the type of some AVPs	
			0426		OFR-Flags AVP code	
			0427		P-CSCF Restoration mechanism new error	
2015-03	CT#67	CP-150015	0447		Renaming of Location-Type AVP	12.8.0
			0437		Location reporting in emergency 1xSRVCC	
			0435		AVP codes for GCSE MB2-C	{
			0442		New AVPs and range of transient failure result codes in TS 29.214	
			0438	1	Allocation of code for Authorized-Discovery-Range AVP (TS 29.344)	
			0440		Location Update Trigger	
			0441	1	AVP codes allocation for Validity related AVPs for TS 29.345	
			0443	-	Allocation of codes for the Integrity Checks. Aspect AVPs	
2015-03	CT#67	CP-150039	0439	1	Diameter Application Identifier for Np protocol	13.0.0
2015-06	CT#68	CP-150257	0450	1	AVP code allocation for Match Refresh Timer AVP in TS	13.1.0
		OD 450045	0.457		29.345	
		CP-150247			Wrong CR implementation of CR 0416r1	{
		CP-150249 CP-150263			AVP code allocation for 32.299 AVP codes for Access Restriction Data per PLMN	{
		CP-150263 CP-150372		_	IP-SM-GW-Realm	}
2015-09	CT#69	CP-150372		-	Subscription data for extended buffering at the SGW	13.2.0
_0.000	0.1100	CP-150442		-	Overlapping transaction over S6b	. 5.2.5
	İ	CP-150453		2	Addition of IMSI Group Id AVP definition	
		CP-150449	0465	3	Addition of CP parameter AVP definition]
		CP-150431			AVP codes for TS 29.212	
		CP-150456			AVP definition for S6t	
2015-12	CT#70	CP-150761	0473	-	Addition of MBMS-Cell-List AVP	13.3.0

1	I	LCD 150779	0474	1	Set Application ID and Command Codes	ר
		CP-150778 CP-150778			S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities	1
		CP-150778			AVP codes for MONTE T6a/b interface	1
		CP-150778			Correction to SCEF-Reference-ID and SCEF-Reference-	
		CP-150778	0494	2	Definition of AVP for deletion of all Monitoring events	1
		CD 150779	0501	1	assigned to a subscriber (UE) Definition of AVP SCEF-ID	-
		CP-150778 CP-150778		1	Service result per Event configuration	1
		CP-150770			Emergency PDN connection over untrusted WLAN access	1
		CP-150776			EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving	
		CP-150776	0497	1	Mobile Terminating SMS handling for extended Idle mode DRX	_
		CP-150776	0498	1	Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option	1
		CP-150777	0477	3	Commands and codes for Np protocol	1
		CP-150772			Definition of ProSe-Metadata-Index-Mask	İ
		CP-150772	0489	-	Addition of AVPs and result-codes	Ī
		CP-150772	0500	-	Addition of AVP used in match report procedure for eProSe-Ext-CT	
		CP-150754			Allowed WAF and/or WWSF Identities]
		CP-150773			Add the default access type to 3GPP specific AVP	ļ
		CP-150781			AVP code allocation for "UE Usage Type"	1
		CP-150755			Metadata in Match-Report	4
		CP-150755			New Group AVP for ProSe direct discovery procedures	4
		CP-150771			Definition of AVP for AESE-CT	1
		CP-150771			Command codes and AVP range for TS 29.154 and TS 29.153	
		CP-150776			AVP codes for Indoor Positioning support in SLg/Lgd	
2016-03	CT#71	CP-160041			Application ID for St	13.4.0
		CP-160041			Correction on TS numbers	<u> </u>
		CP-160041			AVPs for the Rx Diameter application	4
		CP-160041			AVP code reservation for 32.299 Codes for 29.212	4
		CP-160041				1
		CP-160029 CP-160029			New AVP assignment for MONTE Change of type of Monitoring-Duration AVP to represent	1
		CF-100029	0309	-	an absolute time	
		CP-160035	0507	-	Remove the default access AVP	1
		CP-160035		-	Specific AVP codes for NBIFOM	1
		CP-160030			Alert procedure from MME/SGSN to SMS-GMSC for MT SMS to UE using eDRX	
		CP-160037	0512	-	ePDG retrieval of WLAN Location Information	Ī
		CP-160033			Definition of AVP Authorization of NIDD	Ī
		CP-160033	0520	2	New PDN-Type for Cellular IoT	1
		CP-160036	0517	1	Monitoring update and Reporting of update result]
		CP-160036	0519	3	Allocation of new Diameter Application ID and commands code for PC2 protocol	
2016-03	CT#71	CP-160018	0515	1	AVP code reservation for 32.299	14.0.0
2016-06	CT#71	CP-160236			Command Codes for 29.212	14.1.0
2016-06	CT#72	CP-160236			AVP code range 3900-3999	14.1.0
2016-06	CT#72	CP-160236		1	New AVPs in TS 29.214	14.1.0
2016-06	CT#72	CP-160236			AVP codes for 29.212	14.1.0
2016-06	CT#72	CP-160232			AVP Codes for 29.343	14.1.0
2016-06	CT#72	CP-160232	0533	3	Addition of new AVPs for ProSe direct discovery security and open ProSe direct discovery with application-	14.1.0
0040.00	OT#70	OD 400000	05.40		controlled extension	4440
2016-06 2016-06	CT#72 CT#72	CP-160232 CP-160232	0540 0549	-	Reserved Experimental Result Codes for TS 29.343 Assignment of application ID and command code for PC2	14.1.0
2010-00	01#72	CF-100232	0349	-	reference point	14.1.0
2016-06	CT#72	CP-160228		- <u> </u>	IANA Command Code Registration	14.1.0
2016-06	CT#72	CP-160228		1	CloT new commands and Diameter error	14.1.0
2016-06	CT#72	CP-160228		-	NIDD authorisation update	14.1.0
2016-06	CT#72	CP-160228		3	Serving PLMN Rate Control	14.1.0
2016-06 2016-06	CT#72 CT#72	CP-160228 CP-160233		1	New AVP for APN Rate Control Renaming of Validity-Time AVP	14.1.0
2016-06	CT#72	CP-160233	0562	1	New AVPs allocated for 29.153 and 29.154	14.1.0
2016-06	CT#72	CP-160233			SCEF Realm	14.1.0
2016-06	CT#72	CP-160225		-	Cleanup up on MONTE AVP's	14.1.0
2016-06	CT#72	CP-160227	0546	-	IANA assigned application Id and command code values	14.1.0
2016-06	CT#72	CP-160227		2	Allocation of AVP codes and Experimental Result codes for Diameter Data Management application	14.1.0
2016-06	CT#72	CP-160231	0553	1	3GPP specific AVP for NBIFOM	14.1.0
2016-06	CT#72	CP-160222	0555	1	Shared Subscription data update	14.1.0

2016-09	CT#73	CP-160424	0570	1	Missing AVP codes and Experimental-Result codes for	14.2.0
2016-09	CT#73	CP-160424	0574	1	T6a Allocate of AVP Handling of Exception Reports in the Core	14.2.0
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2016-09	CT#73	CP-160419		1	AVP codes for 32.299	14.2.0
2016-09	CT#73	CP-160419		1	AVP code for 29.214	14.2.0
2016-09	CT#73	CP-160419			AVP code for 29.212	14.2.0
2016-09	CT#73	CP-160436		1	STa and SWm extensions for IMEI check	14.2.0
2016-12	CT#74		0582	-	AVP code alignment with 29.272	14.3.0
2016-12 2016-12	CT#74 CT#74	CP-160679 CP-160678	0579 0583	1	AVPs for Handover of Emergency PDN Connections New Diameter Application Code, AVP and Result Code for V2X	14.3.0
2016-12	CT#74		0585	1	Renaming of Emergency-Indication AVP	14.3.0
2016-12 2016-12	CT#74		0586		New AVPs for TS 29.214	14.3.0
2016-12	CT#74 CT#74	CP-160660		 -	S6t-HSS-Cause AVP codes for 29.468	14.3.0
2016-12	CT#75	CP-160669 CP-170039		1	Enhanced Coverage	14.4.0
2017-03	CT#75	CP-170039		1	Inter-RAT PDN-Continuity	14.4.0
2017-03	CT#75	CP-170039		1	NIDD Authorization revocation	14.4.0
2017-03	CT#75	CP-170036		1	Loss Of Connectivity Reason	14.4.0
2017-03	CT#75	CP-170036		1	Subscription parameters for eDRX	14.4.0
2017-03	CT#75	CP-170036		1	Support of long and short Macro eNodeB IDs	14.4.0
2017-03	CT#75	CP-170025		-	AVP codes for 32.299	14.4.0
2017-03	CT#75	CP-170043		1	New AVP for UE-PC5-AMBR	14.4.0
2017-03	CT#75		0603		Correct Diameter Result Code Allocated for V2X	14.4.0
2017-03	CT#75	CP-170049		1	AVPs for ERP in 29.273	14.4.0
2017-03	CT#75		0605	-	Update of the name of MCPTT-User-Profile-Data AVP	14.4.0
2017-03	CT#75	CP-170045	0606	-	Support of MCVideo and MCData Services	14.4.0
2017-06	CT#76	CP-171029	0600	4	New AVP for Group Based MONTE Event Configuration via HSS	14.5.0
2017-06	CT#76	CP-171017	0609	-	New AVPs in 29.272 for MBSFN MDT	14.5.0
2017-06	CT#76	CP-171026		- 1	AVP codes for 29.212	14.5.0
2017-06	CT#76	CP-171026		-	AVP codes for 29.214	14.5.0
2017-06	CT#76		0612	1	AVP code allocation for 29.172 for Location Services for CioT	14.5.0
2017-06	CT#76	CP-171030	0613	-	Addition of APN-Validity-Time AVP	14.5.0
2017-06	CT#76	CP-171026		-	AVP codes for 32.299	14.5.0
2017-09	CT#77	CP-172018	0616	1	Reliable Data Service Success cause	14.6.0
2017-09	CT#77	CP-172018		1	Reliable Data Service	14.6.0
2017-09	CT#77	CP-172026		1	Enhancements for NAPS	15.0.0
2017-12	CT#78		0625	-	AVP codes for TS 29.219, TS 29.212 and TS 29.214	15.1.0
2017-12	CT#78	CP-173033		1	Suggested Network Configuration Request	15.1.0
2017-12	CT#78	CP-173028		-	Monitoring Event Report Status	15.1.0
2017-12	CT#78 CT#78	CP-173028 CP-173032	0626 0627	-	AVP code for PLMN-ID-Requested in S6t New AVP for PC5-tech for WLAN based ProSe Direct	15.1.0 15.1.0
2040.02	OT#70	CP-180021	0000	4	Discovery	45.00
2018-03 2018-03	CT#79 CT#79	CP-180021			Service Gap Time AVP AVP codes for 32.299	15.2.0 15.2.0
2018-03	CT#79	CP-180025			IMSI-Group-Id retrieval	15.2.0
2018-06	CT#80	CP-181120			Supported-Services and Supported-Monitoring-Events	15.3.0
2018-06	CT#80	CP-181120			New AVPs in TS 29.212 for eVoLP	15.3.0
2018-06	CT#80	CP-181120			Reserve Diameter codes for TS 29.561	15.3.0
2018-06	CT#80		0635		Application ID for Diameter Nta	15.3.0
2018-06	CT#80	CP-181120			AVP codes for TS 29.154	15.3.0
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2018-06	CT#80	CP-181120			AVP codes for 32.299	15.3.0
2018-06	CT#80	CP-181124	0640	1	Subscription data for ciphering keys	15.3.0
2018-06	CT#80		0634	-	AVP code for NIR-Flags	15.3.0
2018-09	CT#81	CP-182080		-	AVP code for TS 29.214	15.4.0
2018-09	CT#81	CP-182073	0643		AVP codes for TS 29.468	15.4.0
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2018-09	CT#81	CP-182073			Change of value type of Maximum Packet Loss Rate	15.4.0
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2018-12	CT#82		0653		Interworking-5GS-Indicator AVP definition	15.5.0
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2018-12	CT#82	CP-183095			Monitoring event report	15.5.0
2018-12	CT#82 CT#82	CP-183102	0654	-	Wrong AVP type in Access-Restriction-Data	15.5.0
2018-12 2018-12	CT#82 CT#82 CT#82	CP-183102 CP-183102	0654 0655	-	Wrong AVP type in Access-Restriction-Data NIDD group authorization	15.5.0 15.5.0
2018-12	CT#82 CT#82	CP-183102	0654 0655 0656	-	Wrong AVP type in Access-Restriction-Data	15.5.0

2019-03	CT#83	CP-190037	0658	1		Handling of multiple external IDs for the same UE	15.6.0
2019-09	CT#85	CP-192125	0662	-		Add P-CSCF subscription info to Restoration information	16.0.0
2019-09	CT#85	CP-192122	0661	1		Event type PDN Connectivity Status	16.0.0
2019-09	CT#85	CP-192122	0664	-		Ethernet PDN Type AVP	16.0.0
2019-09	CT#85	CP-192121	0663	1		Communication pattern enhancement	16.0.0
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2019-12	CT#86	CP-103038	0666	1		New Error Code for TS 29.336	16.1.0
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2019-12	CT#86	CP-193052	0665	1		Battery Indication for Communication pattern	16.1.0
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2020-03	CT#87e	CP-200041	0676	1		AVP codes for 32.299	16.2.0
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2020-03	CT#87e	CP-200036	0679	-		Subscription data for NR V2X	16.2.0
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2020-06	CT#88e	CP-201016	0685	-		SMSF Address	16.3.0
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History

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