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ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

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

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Foreword

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1 Scope

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

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

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.

Diameter protocol; Stage 3".

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

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

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

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	3GPP PC2	29.343 [32]
16777340	3GPP PC6/PC7	29.345 [34]
16777342	3GPP Np	29.217 [35]
16777345	3GPP S6t	29.336 [28]
16777346	3GPP T6a/T6b	29.128 [36]
16777347	3GPP Ns	29.153[37]
16777348	3GPP Nt	29.154[38]
16777349	3GPP St	29.212 [19]
16777350	3GPP PC2	29.343 [32]
16777351	3GPP Diameter Data	29.283 [39]
	Management	1 22 [22]
16777355	3GPP V4	29.388 [40]
16777356	3GPP V6	29.389 [41]

5 Command codes

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

5.1 Command codes allocated for 3GPP

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
300	User-Authorization-Request/-Answer	UAR/UAA	331113
301	Server-Assignment-Request/-Answer	SAR/SAA	
302	Location-Info-Request/-Answer	LIR/LIA	
303	Multimedia-Auth-Request/-Answer	MAR/MAA	29.229 [2]
304	Registration-Termination-Request/-	RTR/RTA	
	Answer		
305	Push-Profile-Request/-Answer	PPR/PPA	
306	User-Data-Request/-Answer	UDR/UDA	
307	Profile-Update-Request/-Answer	PUR/PUA	29.329 [4]
308	Subscribe-Notifications-Request/-Answer	SNR/SNA	29.329 [4]
309	Push-Notification-Request/-Answer	PNR/PNA	
310	Boostrapping-Info-Request/Answer	BIR/BIA	29.109 [7]
311	Message-Process-Request/Answer	MPR/MPA	29.140 [16]
312	GBAPush-Info-Request/Answer	GPR/GPI	29.109 [7]

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
8388620	Provide-Location-Request/Answer	PLR/PLA	00 470 [04]
8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]
8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]
8388635	Spending-Limit-Request/Answer	SLR/SLA	-
8388636	Spending-Status-Notification-	SNR/SNA	29.219 [26]
	Request/Answer		
8388637	TDF-Session-Request/Answer	TSR/TSA	00 040 [40]
8388731	TSSF-Notification-Request/Answer	TNR/TNA	29.212 [19]
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	00 070 [04]
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]
8388639	Device-Action-Request/Answer	DAR/DAA	00 000 [07]
8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]
8388718	Configuration-Information-	CIR/CIA	
	Request/Answer		
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	OFR/OFA	
0300043	Request/Answer	OFTOOLY	
8388646	MT-Forward-Short-Message	TFR/TFA	
0300040	Request/Answer	HIVHA	
8388647	Send-Routing-Info-for-SM-	SRR/SRA	29.338 [30]
0300047	Request/Answer	OKKOKA	29.000 [00]
8388648	Alert-Service-Centre-Request/Answer	ALR/ALA	
8388649	Report-SM-Delivery-Status-	RDR/RDA	
0300049	Request/Answer	NDIVINDA	
8388656	Trigger-Establishment-Request/Answer	TER/TEA	29.215 [30]
8388662	GCS-Action-Request/Answer	GAR/GAA	29.213 [30]
8388663	GCS-Notification-Request/Answer	GNR/GNA	29.468 [31]
8388664	ProSe-Subscriber-Information-	PIR/PIA	
0300004	Request/Answer	FIR/FIA	
8388665	Update-ProSe-Subscriber-Data-	UPR/UPA	
0300003	Request/Answer	UFNUFA	29.344 [33]
8388666	ProSe-Notify-Request/Answer	PNR/PNA	29.344 [33]
8388713	ProSe-Initial-Location-Information-	PSR/PSA	
0300713	Request/Answer	I SIVI SA	
8388668	ProSe-Authorization-Request/Answer	PAR/PAA	
8388669	D 0 D: D 1/A	PDR/PDA	=
	ProSe-Discovery-Request/Answer ProSe-Match-Request/Answer	PMR/PMA	1
8388670			-
8388671	ProSe-Match-Report-Info-Request/Answer	PIR/PIA	29.345 [34]
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	-
8388674	ProSe-Alert-Request/Answer	ALR/ALA	4
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	
8388676	ProXimity-Action-Request/Answer	PXR/PXA	29.343 [32]
8388727	ProXimity-Application-Request/Answer	XAR/XAA	
8388720	Non-Aggregated-RUCI-Report-	NRR/NRA	
0000704	Request/Answer	A D D / A D A	00 047 [05]
8388721	Aggregated-RUCI-Report-	ARR/ARA	29.217 [35]
0000700	Request/Answer	N 41 11D /N 41 1 A	-
8388722	Modify-Uecontext-Request/Answer	MUR/MUA	
8388724	Network-Status-Request/Answer	NSR/NSA	00 450 5073
8388725	Network-Status-Continuous-Report-	NCR/NCA	29.153 [37]
0000700	Request/Answer	DTD /DT *	
8388723	Background-Data-Transfer-	BTR/BTA	29.154 [38]
0000700	Request/Answer	DDD/554	- []
8388728	Data-Pull-Request/Answer	DPR/DPA	00 000 1001
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	

6 Vendor identifier

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

6.1 3GPP's vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specifie d in the 3GPP TS
	3GPP-WLAN-APN-Id	OctetString	29,234
	3GPP-WLAN-QoS-Filter-Rule	UTF8String	[6]
	3GPP-WLAN-QoS-Filter-Support	OctetString	
	The AVP codes from 1 to 255 are reserved for backwards utes (See TS 29.061 [13] and TS 29.234 [6])	s compatibility with 3GPP RADIUS Vendo	r Specific
	The AVP codes from 256 to 299 are reserved for future u	se.	
	Authentication-Method	Enumerated	
	Authentication-Information-SIM	OctetString	
	Authorization -Information-SIM	OctetString	
	WLAN-User-Data	Grouped	
	Charging-Data WLAN-Access	Grouped Enumerated	
	WLAN-3GPP-IP-Access	Enumerated	
	APN-Authorized	Grouped	
	APN-Id	Croapea	
	APN-Barring-Type	Enumerated	29.234
	WLAN-Direct-IP-Access	Enumerated	[6]
311	Session-Request-Type	Enumerated	
	Routing-Policy	IPFilterRule	
	Max-Requested-Bandwidth	OctetString	
	Charging-Characteristics	Integer	
	Charging-Nodes	Grouped	
	Primary-OCS-Charging-Function-Name	DiameterIdentity	
	Secondary-OCS-Charging-Function-Name 3GPP-AAA-Server-Name	DiameterIdentity	
	Maximum-Number-Accesses	DiameterIdentity Unsigned32	
	The AVP codes from 320 to 399 are reserved for TS 29		
	2: The 3GPP-AAA-Server-Name definition is moved to TS		
	GBA-UserSecSettings	OctetString	
401	Transaction-Identifier	OctetString	
	NAF-Hostname	OctetString	
	GAA-Service-Identifier Key-ExpiryTime	OctetString Time	
405	ME-Key-Material	OctetString	
406	UICC-Key-Material	OctetString	
407	GBA_U-Áwareness-Indicator	Enumerated	
408	BootstrapInfoCreationTime GUSS-Timestamp	Time Time	
410	GBA-Type	Enumerated	29.109
	UE-Id	OctetString	[7]
	UE-Id-Type	Enumerated	
	UICC-App-Label UICC-ME	OctetString	
	Requested-Key-Lifetime	Enumerated Time	
416	Private-Identity-Request	Enumerated	
	GBA-Push-Info	OctetString	
418	NAF-SA-Identifier	OctetString	
419	Security-Feature-Request Security-Feature-Response	OctetString OctetString	
	The AVP codes from 421 to 499 are reserved for TS 29.1		
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	
	Access-Network-Charging-Identifier	Grouped	
503	Access-Network-Charging-Identifier-Value	OctetString	
	AF-Application-Identifier	OctetString	29,209
	AF-Charging-Identifier	OctetString	[8],
	Authorization-Token	OctetString	29.211
	Flow-Description	IPFilterRule	[17],
	Flow Number	Grouped	29.214
	Flows	Unsigned32 Grouped	[18]
	Flows-Status	Enumerated	
	Flow-Usage	Enumerated	
		Enumerated	
513	Specific-Action		

515	Max-Requested-Bandwidth-DL	Unsigned32	
516	Max-Requested-Bandwidth-UL	Unsigned32	
517	Media-Component-Description	Grouped	
	Media-Component-Number	Unsigned32	
	Media-Sub-Component AVP	Grouped	
	Media-Type	Enumerated	
	RR-Bandwidth	Unsigned32	
	RS-Bandwidth	Unsigned32	
	SIP-Forking-Indication	Enumerated	
	Codec-Data	OctetString	
525	Service-URN	OctetString	
526	Acceptable-Service-Info	Grouped	
	Service-Info-Status	Enumerated	
	MPS-Identifier	OctetString	
	AF-Signalling-Protocol	Enumerated	
	Sponsored-Connectivity-Data	Grouped	
	Sponsor-Identity	OctetString	
	Application-Service-Provider-Identity	OctetString	
	Rx-Request-Type	Enumerated	
	Min-Requested-Bandwidth-DL	Unsigned32	
535	Min-Requested-Bandwidth-UL	Unsigned32	
	Required-Access-Info	Enumerated	
	IP-Domain-Id	OctetString	
	GCS-Identifier	OctetString	
	Sharing-Key-DL	Unsigned32	
	Sharing-Key-UL	Unsigned32	
	Retry-Interval	Unsigned32	
	Sponsoring-Action	Enumerated	
	Max-Supported-Bandwidth-DL	Unsigned32	
	Max-Supported-Bandwidth-UL	Unsigned32	
545	Min-Desired-Bandwidth-DL	Unsigned32	
546	Min-Desired-Bandwidth-UL	Unsigned32	
547	MCPTT-Identifier	OctetString	
	Service-Authorization-Info	Unsigned32	
	Media-Component-Status	Unsigned32	
	Priority-Sharing-Indicator	Enumerated	
	AF-Requested-Data	Unsigned32	
	Content-Version	Unsigned64	
	Pre-emption-Control-Info	Unsigned32	
	The AVP codes from 554 to 599 are reserved for TS 29.209, TS		
	Visited-Network-Identifier	OctetString	
601	Public-Identity	UTF8String	
602	Server-Name	UTF8String	
603	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	
	SIP-Authorization	OctetString	
611	SIP-Authentication-Context	OctetString	29.229
612	SIP-Auth-Data-Item	Grouped	
	SIP-Item-Number	Unsigned32	[2]
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
	Reason-Info	UTF8String	
	Charging-Information	Grouped	
	Primary-Event-Charging-Function-Name	DiameterURI	
	Secondary-Event-Charging-Function-Name	DiameterURI	
	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
623	User-Authorization-Type	Enumerated	
	User-Data-Already-Available	Enumerated	
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	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	_
	User-Data-Request-Type	Enumerated	_
	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
	Supported-Applications	Grouped	_
	Associated-Identities	Grouped	
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
639	SCSCF-Restoration-Info	Grouped	
640	Path	OctetString	
641	Contact	OctetString	
	Subscription-Info	Grouped	
643	Call-ID-SIP-Header	OctetString	
644	From-SIP-Header	OctetString	
645	To-SIP-Header	OctetString	
	Record-Route	OctetString	1
647	Associated-Registered-Identities	Grouped	1
	Multiple-Registration-Indication	Enumerated	1
	Restoration-Info	Grouped	
	Session-Priority	Enumerated	1
	Identity-with-Emergency-Registration	Grouped	1
	Priviledged-Sender-Indication	Enumerated	1
	LIA-Flags	Unsigned32	1
654	Initial-CSeq-Sequence-Number	Unsigned32	-
	SAR-Flags	Unsigned32	
	Allowed-WAF-WWSF-Identities	Grouped	1
	WebRTC-Authentication-Function-Name	UTF8String	1
	WebRTC-Web-Server-Function-Name	UTF8String	-
	The AVP codes from 659 to 699 are reserved for TS 29.229.	O IT Ooting	L
	User-Identity	Grouped	
	MSISDN	OctetString	-
	User-Data	OctetString	+
	Data-Reference	Enumerated	+
	Service-Indication	OctetString	1
	Subs-Req-Type	Enumerated	1
			+
	Requested-Domain	Enumerated	1
	Current-Location	Enumerated	4
	Identity-Set	Enumerated	+
	Expiry-Time	Time	1
	Send-Data-Indication	Enumerated	29.329
	DSAI-Tag	OctetString	[4]
	One-Time-Notification	Enumerated	' '
	Requested-Nodes	Unsigned32	4
	Serving-Node-Indication	Enumerated	1
	Repository-Data-ID	Grouped	1
	Sequence-Number	Unsigned32	1
	Pre-paging-Supported	Enumerated	1
	Local-Time-Zone-Indication	Enumerated]
	UDR-Flags	Unsigned32	
	Call-Reference-Info	Grouped	1
	Call-Reference-Number	OctetString]
	AS-Number	OctetString	
	The AVP codes from 723 to 799 are reserved for TS 29.329.		
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
	Event-Type	Grouped]
	SIP-Method	UTF8String	22 200
825	Event	UTF8String	32.299
	Content-Type	UTF8String	[5]
	Content-Length	Unsigned32]
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	Content-Disposition	UTF8String
	Role-of-Node	Enumerated
	User-Session-Id	UTF8String
	Calling-Party-Address	UTF8String
	Called-Party-Address	UTF8String
	Time-Stamps	Grouped
	SIP-Request-Timestamp	Time
	SIP-Response-Timestamp	Time
	Application-Server	UTF8String
	Application-provided-called-party-address	UTF8String
	Inter-Operator-Identifier	Grouped
839	Originating-IOI	UTF8String
840	Terminating-IOI	UTF8String
	IMS-Charging-Identifier	UTF8String
842	SDP-Session-Description	UTF8String
	SDP-Media-Component	Grouped
844	SDP-Media-Name	UTF8String
845	SDP-Media-Description	UTF8String
846	CG-Address	Address
	GGSN-Address	Address
	Served-Party-IP-Address	Address
	Authorized-QoS	UTF8String
	Application-Server-Information	Grouped
	Trunk-Group-Id	Grouped
852	Incoming-Trunk-Group-Id	UTF8String
	Outgoing-Trunk-Group-Id	UTF8String
	Bearer-Service	OctetString
	Service-Id	UTF8String
	Associated-URI	UTF8String
	Charged-Party	UTF8String
	PoC-Controlling-Address	UTF8String
	PoC-Group-Name	UTF8String
	Cause	Grouped
	Cause-Code	Integer32
	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
	Volume-Quota-Threshold	Unsigned32
	Trigger-Type	Enumerated
	Quota-Holding-Time	Unsigned32
	Reporting-Reason	Enumerated
	Service-Information	Grouped
	PS-Information	Grouped
	Reserved	-
	IMS-Information	Grouped
	MMS-Information	Grouped
	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	-
1 XY1	Reserved	-
	Reserved	

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	Reserved	-		
	Address-Data	UTF8S		
	Address-Domain	Group		
899	Address-Type	Enume	rated	
000	TMOL	0-110	Marina an	
	TMGI	OctectS		
	Required-MBMS-Bearer-Capabilities	UTF8S		
	MBMS-StartStop-Indication	Enumei		
	MBMS-Service-Area	OctectS		
	MBMS-Session-Duration	Unsigne		
	Alternative-APN	UTF8S		
	MBMS-Service-Type	Enumei		
	MBMS-2G-3G-Indicator	Enumei		
908	MBMS-Session-Identity	OctetS		
	Additional-MBMS-Trace-Info	UTF8S OctetS		
	MBMS-Time-To-Data-Transfer	Unsigne		
		Unsigne		
	MBMS-Session-Identity-Repetition-Number MBMS-Required-QoS	UTF8S		
	MBMS-Counting-Information	Enumei		
	MBMS-User-Data-Mode-Indication	Enumei		
	MBMS-GGSN-Address	UTF8S		
	MBMS-GGSN-Address	UTF8S		29.061
	MBMS-BMSC-SSM-IP-Address	UTF8S		[13]
	MBMS-BMSC-SSM-IPv6-Address	UTF8S		
	MBMS-Flow-Identifier	OctetS		
	CN-IP-Multicast-Distribution	Enumer		
	MBMS-HC-Indicator	Enumei		
	MBMS-Access-Indicator	Enumei		
	MBMS-GW-SSM-IP-Address	OctetS		
	MBMS-GW-SSM-IPv6-Address	OctetS		
	MBMS-BMSC-SSM-UDP-Port	OctetS		
	MBMS-GW-UDP-Port	OctetS		
	MBMS-GW-UDP-Port-Indicator	Enume		
	MBMS-Data-Transfer-Start	Unsigne		
	MBMS-Data-Transfer-Stop	Unsigne		
	MBMS-Flags	Unsigne		
	Restart-Counter	Unsigne		
	Diagnostic-Info	Unsigne		
	MBMS-Cell-List	OctetS		
	The AVP codes from 935 to 999 are reserved for TS 29.061		· J	ı
	Bearer-Usage	Enumerated	29.212 [19]	
	Charging-Rule-Install	Grouped	1	1
	Charging-Rule-Remove	Grouped	1	
	Charging-Rule-Definition	Grouped	1	
	Charging-Rule-Base-Name	UTF8String	1	
	Charging-Rule-Name	OctetString		
	Event-Trigger	Enumerated		
	Metering-Method	Enumerated		
1008	Offline	Enumerated		
	Online	Enumerated		
	Precedence	Unsigned32		
	Reporting-Level	Enumerated	_	
	TFT-Filter	IPFilterRule	_	
	TFT-Packet-Filter-Information	Grouped	_	
	ToS-Traffic-Class	OctetString	_	
	QoS-Information	Grouped	_	
	Charging-Rule-Report	Grouped		
	PCC-Rule-Status	Enumerated	_	
	Bearer-Identifier	OctetString	_	
	Bearer-Operation	Enumerated	_	
1022	Access-Network-Charging-Identifier-Gx	Grouped		

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	Bearer-Control-Mode	Enumerated
	Network-Request-Support	Enumerated
	Guaranteed-Bitrate-DL	Unsigned32
	Guaranteed-Bitrate-UL	Unsigned32
	IP-CAN-Type	Enumerated
	QoS-Class-Identifier	Enumerated
	QoS-Negotiation	Enumerated
1030	QoS-Upgrade	Enumerated
	Rule-Failure-Code	Enumerated
	RAT-Type	Enumerated
	Event-Report-Indication	Grouped
	Allocation-Retention-Priority	Grouped
	CoA-IP-Address	Address
	Tunnel-Header-Filter	IPFilterRule
	Tunnel-Header-Length	Unsigned32
	Tunnel-Information	Grouped
	CoA-Information	Grouped
	APN-Aggregate-Max-Bitrate-DL	Unsigned32
	APN-Aggregate-Max-Bitrate-UL	Unsigned32
	Revalidation-Time	Time
	Rule-Activation-Time	Time
1044	Rule-DeActivation-Time	Time
	Session-Release-Cause	Enumerated
1046	Priority-Level	Unsigned32
	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
	Flow-Label	OctetString
1058	Flow-Information	Grouped
1059	Packet-Filter-Content	IPFilterRule
1060	Packet-Filter-Identifier	OctetString
1061	Packet-Filter-Information	Grouped
1062	Packet-Filter-Operation	Enumerated
	Resource-Allocation-Notification	Enumerated
	Session-Linking-Indicator	Enumerated
	PDN-Connection-ID	OctetString
1066	Monitoring-Key	OctetString
	Usage-Monitoring-Information	Grouped
1068	Usage-Monitoring-Level	Enumerated
	Usage-Monitoring-Report	Enumerated
	Usage-Monitoring-Support	Enumerated
	CSG-Information-Reporting	Enumerated
	Packet-Filter-Usage	Enumerated
	Charging-Correlation-Indicator	Enumerated
	QoS-Rule-Base-Name	UTF8String
	Routing-Rule-Remove	Grouped
	Routing-Rule-Definition	Grouped
	Routing-Rule-Identifier	OctetString
	Routing-Filter	Grouped
	Routing-IP-Address	Address
	Flow-Direction	Enumerated
	Routing-Rule-Install	Grouped
	Credit-Management-Status	Unsigned32
	Redirect-Information	Grouped
	Redirect- Support	Enumerated
	TDF-Information	Grouped
	TDF-Application-Identifier TDF Destination Heat	OctetString
1089	TDF-Destination-Host	DiameterIdentity

1090 TDF-Destination-Realm	DiameterIdentity	
1091 TDF-IP-address	Address	
1092 ADC-Rule-Install	Grouped	
1093 ADC-Rule-Remove	Grouped	
1094 ADC-Rule-Definition	Grouped	
1095 ADC-Rule-Base-Name	UTF8String	
1096 ADC-Rule-Name	OctetString	
1097 ADC-Rule-Report	Grouped	
1098 Application-Detection-Information	Grouped	
1099 PS-to-CS-Session-Continuity	Enumerated	
Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212	T.	
1100 Served-User-Identity	Groupe	29.140 [16]
1101 VASP-ID	UTF8Str	
1102 VAS-ID	UTF8String	
1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address 1106 Result-Recipient-Address	Grouped	
1107 Sequence-Number	Grouped Unsigned32	
1108 Recipient-Address	UTF8String	
1109 Recipient-Address 1109 Routeing-Address	UTF8String	
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	UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	-	
1200 Domain-Name	UTF8String	32.299 [5]
1201 Recipient-Address	Grouped	
1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size 1207 Additional-Content-Information	Unsigned32	
1207 Additional-Content-information		
1200 Addresses Type	Grouped	
1208 Addressee-Type	Enumerated	
1209 Priority	Enumerated Enumerated	
1209 Priority 1210 Message-ID	Enumerated Enumerated UTF8String	
1209 Priority 1210 Message-ID 1211 Message-Type	Enumerated Enumerated UTF8String Enumerated	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size	Enumerated Enumerated UTF8String Enumerated Unsigned32	
1209 Priority 1210 Message-ID 1211 Message-Type	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class	Enumerated Enumerated UTF8String Enumerated Unsigned32	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated UTF8String	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated UTF8String Enumerated Enumerated UTF8String Enumerated UTF8String	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated UTF8String Enumerated Enumerated Enumerated Enumerated	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1220 Content-Class	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String UTF8String UTF8String	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1220 Content-Class 1221 DRM-Content	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String UTF8String UTF8String Enumerated UTF8String	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1220 Content-Class 1221 DRM-Content 1222 Read-Reply-Report-Requested	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated UTF8String Enumerated Enumerated UTF8String Enumerated UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated Enumerated	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1220 Content-Class 1221 DRM-Content 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated UTF8String Enumerated Enumerated UTF8String Enumerated UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated UTF8String	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1220 Content-Class 1221 DRM-Content 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1224 File-Repair-Supported	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String Enumerated Enumerated UTF8String Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated	
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1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1220 Content-Class 1221 DRM-Content 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1224 File-Repair-Supported 1225 MBMS-User-Service-Type 1226 Unit-Quota-Threshold	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated UTF8String Enumerated UTF8String	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1220 Content-Class 1221 DRM-Content 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1224 File-Repair-Supported 1225 MBMS-User-Service-Type 1226 Unit-Quota-Threshold 1227 PDP-Address	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String Enumerated	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1220 Content-Class 1221 DRM-Content 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1224 File-Repair-Supported 1225 MBMS-User-Service-Type 1226 Unit-Quota-Threshold 1227 PDP-Address 1228 SGSN-Address	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated UTF8String Enumerated Enumerated UTF8String Address Address	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1220 Content-Class 1221 DRM-Content 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1224 File-Repair-Supported 1225 MBMS-User-Service-Type 1226 Unit-Quota-Threshold 1227 PDP-Address 1228 SGSN-Address 1229 PoC-Session-Id	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated Enumerated UTF8String Enumerated Unsigned32 Address Address UTF8String	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1220 Content-Class 1221 DRM-Content 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 124 File-Repair-Supported 1225 MBMS-User-Service-Type 1226 Unit-Quota-Threshold 1227 PDP-Address 1228 SGSN-Address 1229 PoC-Session-Id 1230 Deferred-Location-Even-Type	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated UTF8String Enumerated Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String Enumerated Unsigned32 Address Address UTF8String UTF8String	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1220 Content-Class 1221 DRM-Content 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 124 File-Repair-Supported 1225 MBMS-User-Service-Type 1226 Unit-Quota-Threshold 1227 PDP-Address 1228 SGSN-Address 1229 PoC-Session-Id 1230 Deferred-Location-Even-Type	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated UTF8String Enumerated Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String	
1209 Priority 1210 Message-ID 1211 Message-Type 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1220 Content-Class 1221 DRM-Content 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 124 File-Repair-Supported 1225 MBMS-User-Service-Type 1226 Unit-Quota-Threshold 1227 PDP-Address 1228 SGSN-Address 1229 PoC-Session-Id 1230 Deferred-Location-Even-Type	Enumerated Enumerated UTF8String Enumerated Unsigned32 Grouped Enumerated UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated UTF8String Enumerated Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String Enumerated UTF8String Enumerated Unsigned32 Address Address UTF8String UTF8String	

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	LCS-Client-External-ID	UTF8String	
	LCS-Client-Name	Grouped	
	LCS-Data-Coding-Scheme	UTF8String	
	LCS-Format-Indicator	Enumerated	
	LCS-Name-String	UTF8String	
	LCS-Requestor-Id	Grouped	
	LCS-Requestor-Id-String	UTF8String	
	LCS-Client-Type	Enumerated	
	Location-Estimate	OctetString	
1243 L	Location-Estimate-Type	Enumerated	
	Location-Type	Grouped	
	Positioning-Data	UTF8String	
	Reserved	-	
	PDP-Context-Type	Enumerated	
	MMBox-Storage-Requested	Enumerated	
	Service-Specific-Info	Grouped	
	Called-Asserted-Identity	UTF8String	
	Requested-Party-Address	UTF8String	
	PoC-User-Role	Grouped	
	PoC-User-Role-IDs	UTF8String	
	PoC-User-Role-info-Units	Enumerated	
	Talk-Burst-Exchange	Grouped	
	Service-Generic-Information	Grouped	
	Service-Specific-Type	Unsigned32	
	Event-Charging-TimeStamp	Time	
	Participant-Access-Priority	Enumerated	
	Participant-Group	Grouped	
	PoC-Change-Conditions	Enumerated	
	PoC-Change-Time	Time	
	Access-Network-Information	OctetString	
	Trigger	Grouped	
	Base-Time-Interval	Unsigned32	
	Envelope	Grouped	
	Envelope-End-Time	Time	
1268 E	Envelope-Reporting	Enumerated	
1268 E	Envelope-Reporting Envelope-Start-Time	Enumerated Time	
1268 E 1269 E 1270	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism	Enumerated Time Grouped	
1268 E 1269 E 1270 T	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type	Enumerated Time Grouped Enumerated	
1268 E 1269 E 1270 T 1271 T	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description	Enumerated Time Grouped	
1268 E 1269 E 1270 T 1271 T 1272 E 1273 S	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps	Enumerated Time Grouped Enumerated Grouped Grouped	
1268 E 1269 E 1270 T 1271 T 1272 E 1273 S 1274 S	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp	Enumerated Time Grouped Enumerated Grouped Grouped Time	
1268 E 1269 E 1270 1 1271 1 1272 E 1273 S 1274 S	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp	Enumerated Time Grouped Enumerated Grouped Grouped Time Time	
1268 E 1269 E 1270 T 1271 T 1272 E 1273 S 1274 S 1276 A	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped	
1268 E 1269 E 1270 T 1271 T 1272 E 1273 S 1274 S 1275 E 1277 F 1277 F	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated	
1268 F 1269 F 1270 1 1271 1 1272 F 1273 S 1274 S 1275 S 1276 A 1277 F 1278 O	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped	
1268 E 1269 E 1270 1271 1272 E 1273 S 1274 S 1275 S 1277 F 1278 C 1279 E	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated Grouped	
1268 E 1269 E 1270 T 1271 T 1272 E 1273 S 1274 S 1276 F 1277 E 1278 C 1279 E 1280 F 12	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String	
1268 E 1269 E 1270 1271 1272 E 1273 S 1274 S 1275 S 1276 A 1277 E 1278 C 1279 U 1280 A 1281 E	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String UTF8String	
1268 E 1269 E 1270 1271 1272 E 1273 S 1274 S 1277 E 1278 C 1279 E 1280 / 1281 E 1282 E	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String Unsigned32	
1268 E 1269 E 1270 T 1271 T 1272 E 1273 S 1274 S 1277 E 1278 C 1279 E 1280 / 1281 E 1282 E 1283 E 12	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information POC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String Unsigned32 Unsigned32	
1268 E 1269 E 1270 1271 1272 E 1273 S 1274 S 1275 E 1276 A 1277 E 1280 A 1281 E 1282 E 1283 E 1284 E	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information POC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts Received-Talk-Burst-Time	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String UTF8String Unsigned32 Unsigned32 Unsigned32	
1268 E 1269 E 1270 T 1271 T 1272 E 1273 S 1274 S 1277 E 1278 C 1279 E 1280 E 1283 E 1283 E 1284 E 1285 E 12	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information POC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts Received-Talk-Burst-Time Received-Talk-Burst-Volume	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String UTF8String Unsigned32 Unsigned32 Unsigned32 Unsigned32	
1268 E 1269 E 1270 T 1271 T 1272 E 1273 S 1274 S 1277 E 1278 C 1279 E 1280 E 1283 E 1283 E 1284 E 1285 E 12	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information POC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts Received-Talk-Burst-Time	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String UTF8String Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	
1268 E 1269 E 1270 T 1271 T 1272 E 1273 S 1274 S 1277 E 1278 C 1279 E 1280 F 1281 E 1282 E 1283 E 1284 E 1285 E 1287 T 1287 E 12	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts Received-Talk-Burst-Time Received-Talk-Burst-Volume Talk-Burst-Time Talk-Burst-Volume	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String UTF8String Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	
1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1281 1282 1283 1284 1285 1286 1287 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 1288 12	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts Received-Talk-Burst-Time Received-Talk-Burst-Volume Talk-Burst-Time Talk-Burst-Volume Media-Initiator-Party	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String UTF8String Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	
1268 E 1269 E 1270 T 1271 T 1272 E 1273 S 1274 S 1277 E 1278 E 1283 E 1284 E 1285 E 1286 T 1288 E Note: T	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts Received-Talk-Burst-Time Received-Talk-Burst-Volume Talk-Burst-Time Talk-Burst-Volume Media-Initiator-Party The AVP codes from 1289 to 1399 are reserved for TS 32.299	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String UTF8String Unsigned32	
1268 E 1269 E 1270 T 1271 T 1273 S 1274 S 1277 E 1278 C 1279 E 1283 E 1284 E 1285 E 1286 T 1288 E Note: T 1400 S	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts Received-Talk-Burst-Time Received-Talk-Burst-Volume Talk-Burst-Time Talk-Burst-Volume Media-Initiator-Party The AVP codes from 1289 to 1399 are reserved for TS 32.299 Subscription-Data	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String UTF8String Unsigned32	29.272 [21]
1268 E 1269 E 1270 T 1271 T 1273 S 1274 S 1277 E 1278 C 1279 E 1283 E 1284 E 1285 E 1286 T 1288 E Note: T 1400 S	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts Received-Talk-Burst-Time Received-Talk-Burst-Volume Talk-Burst-Time Talk-Burst-Volume Media-Initiator-Party The AVP codes from 1289 to 1399 are reserved for TS 32.299	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String UTF8String Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped Grouped Grouped	29.272 [21]
1268 1269 1270 1271 1272 1273 1275 1276 7 1278 7 1278 1280 7 1281 1282 1283 1284 1285 1286 1287 1288 Note: Telephone Telep	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts Received-Talk-Burst-Time Received-Talk-Burst-Volume Talk-Burst-Time Talk-Burst-Volume Media-Initiator-Party The AVP codes from 1289 to 1399 are reserved for TS 32.299 Subscription-Data Terminal-Information	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String UTF8String Unsigned32 UTF8String	29.272 [21]
1268 1269 1270 1271 1272 1273 1275 1276 7 1278 7 1278 1280 7 1281 1282 1283 1284 1285 1286 1287 1288 Note: Telephone Telep	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts Received-Talk-Burst-Time Received-Talk-Burst-Volume Talk-Burst-Time Talk-Burst-Volume Media-Initiator-Party The AVP codes from 1289 to 1399 are reserved for TS 32.299 Subscription-Data Terminal-Information	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String UTF8String Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped Grouped Grouped	29.272 [21]
1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1281 1282 1283 1284 1285 1286 1287 1288 Note: T 1400 1401 1402 1403 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1404 1	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts Received-Talk-Burst-Time Received-Talk-Burst-Volume Talk-Burst-Time Talk-Burst-Volume Media-Initiator-Party The AVP codes from 1289 to 1399 are reserved for TS 32.299 Subscription-Data Terminal-Information IMEI Software-Version QoS-Subscribed	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String UTF8String Unsigned32 UTF8String	29.272 [21]
1268 1269 1270 1271 1272 1273 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 Note: Telephone Tele	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts Received-Talk-Burst-Time Received-Talk-Burst-Volume Talk-Burst-Time Talk-Burst-Volume Media-Initiator-Party The AVP codes from 1289 to 1399 are reserved for TS 32.299 Subscription-Data Terminal-Information IMEI Software-Version QoS-Subscribed ULR-Flags	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String UTF8String Unsigned32 UTF8String UTF8String	29.272 [21]
1268 1269 1270 1271 1272 1273 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 Note: Telephone Tele	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts Received-Talk-Burst-Time Received-Talk-Burst-Volume Talk-Burst-Time Talk-Burst-Volume Media-Initiator-Party The AVP codes from 1289 to 1399 are reserved for TS 32.299 Subscription-Data Terminal-Information IMEI Software-Version QoS-Subscribed	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String UTF8String Unsigned32 UTF8String UTF8String	29.272 [21]
1268 F 1269 F 1270 T 1271 T 1272 F 1273 F 1276 F 1277 F 1278 F 1280 F 1281 F 1282 F 1283 F 1284 F 1285 F 1286 T 1287 T 1288 F 1286 T 1287 T 1288 F 1400 F 14	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SDP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts Received-Talk-Burst-Time Received-Talk-Burst-Volume Talk-Burst-Time Talk-Burst-Volume Media-Initiator-Party The AVP codes from 1289 to 1399 are reserved for TS 32.299 Subscription-Data Terminal-Information IMEI Software-Version QoS-Subscribed ULR-Flags	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated UTF8String UTF8String Unsigned32 UTF8String UTF8String	29.272 [21]
1268 F 1269 F 1270 T 1271 T 1272 F 1273 S 1274 S 1275 F 1276 F 1278 F 1280 F 1281 F 1282 F 1283 F 1284 F 1285 F 1286 T 1287 T 1288 F 1287 T 12	Envelope-Reporting Envelope-Start-Time Time-Quota-Mechanism Time-Quota-Type Early-Media-Description SDP-TimeStamps SDP-Offer-Timestamp SP-Answer-Timestamp AF-Correlation-Information PoC-Session-Initiation-type Offline-Charging User-Participating-Type Alternate-Charged-Party-Address IMS-Communication-Service-Identifier Number-Of-Received-Talk-Bursts Number-Of-Talk-Bursts Received-Talk-Burst-Time Received-Talk-Burst-Volume Talk-Burst-Volume Talk-Burst-Volume Media-Initiator-Party The AVP codes from 1289 to 1399 are reserved for TS 32.299 Subscription-Data Terminal-Information IMEI Software-Version QoS-Subscribed ULR-Flags ULA-Flags	Enumerated Time Grouped Enumerated Grouped Grouped Time Time Grouped Enumerated Grouped Enumerated Grouped Enumerated UTF8String UTF8String Unsigned32 UTF8String UTF8String UTF8String UTF8String UTF8String	29.272 [21]

1409 Reguested-UTRAN- GERAN-Authentication-Info				
1411 Re-Synchronization-Info			Grouped	
1412 Immediate-Response-Preferred	1410 N	umber-Of-Requested-Vectors	Unsigned32	
1413 Authentication-Info	1411 R	e-Synchronization-Info	OctetString	
1414 E-UTRAN-Vector	1412 In	nmediate-Response-Preferred	Unsigned32	
1414 E-UTRAN-Vector Grouped	1413 Aı	uthentication-Info	Grouped	
1415 UTRAN-Vector Grouped	1414 E-	-UTRAN-Vector		
1416 GERAN-Vector				
HPLMN-ODB				
1419 Item-Number				
1420 Cancellation-Type				
1421 DSR-Flags			V	
1422 DSA-Flags				
1423 Context-Identifier Unsigned32 1424 Subscriber-Status Enumerated 1425 Operator-Determined-Barring Unsigned32 1426 Access-Restriction-Data UTF8String 1427 APN-O-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 1432 VPLMN-Dynamic-Address-Allowed Enumerated 1433 STN-SR OctetString 1434 Alert-Reason Enumerated 1435 AMBR Grouped 1435 AMBR Grouped 1435 AMBR Grouped 1436 CSG-Subscription-Data Unsigned32 1438 PDN-GW-Allocation-Type Enumerated 1439 Expiration-Date Time 1440 RAT-Frequency-Selection-Priority-ID Unsigned32 1441 IDA-Flags Unsigned32 1442 IDA-Flags Unsigned32 1443 INOR-Flags Unsigned32 1444 IDA-Flags </td <td></td> <td></td> <td></td> <td></td>				
1425 Operator-Determined-Barring				
1425				
1426 Access-Restriction-Data				
1427 APN-OI-Replacement UTF8String 1428 All-APN-Configurations-Included-Indicator Enumerated 1429 APN-Configuration Grouped 1430 APN-Configuration Grouped 1431 EPS-Subscribed-OoS-Profile Grouped 1432 VPLMN-Dynamic-Address-Allowed Enumerated 1433 STN-SR OctetString 1434 Alert-Reason Enumerated 1435 AMBR Grouped 1436 CSG-Subscription-Data Grouped 1437 CSG-Id Unsigned32 1438 PDN-GW-Allocation-Type Enumerated 1439 Expiration-Date Time 1440 RAT-Frequency-Selection-Priority-ID Unsigned32 1441 IDA-Flags Unsigned32 1442 IDA-Flags Unsigned32 1443 NOR-Flags Unsigned32 1444 User-Id UTF8-String 1445 Equipment-Status Enumerated 1446 Regional-Subscription-Zone-Code OctetString 1447 RAND OctetString 1448 RES OctetString 1451 Reserved - 1452 Trace-Collection-Entity Address				
1428 AII-APN-Configuration-Profile Grouped 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 1441 IDA-Flags Unsigned32 1442 PUA-Flags Unsigned32 1443 WSR-Flags Unsigned32 1444 User-Id USF-Id UTF8String 1445 Equipment-Status Enumerated 1446 Regional-Subscription-Zone-Code OctetString 1447 RAND OctetString 1448 XRES OctetString 1450 RASME OctetString 1451 Reserved - 1452 Trace-Collection-Entity Address				
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 1441 IDA-Flags Unsigned32 1442 PUA-Flags Unsigned32 1443 NOR-Flags Unsigned32 1444 User-Id User-Id UTF8String 1446 Regional-Subscription-Zone-Code OctetString 1447 RAND OctetString 1448 RRES OctetString 1449 AUTN OctetString 1450 KASME OctetString 1451 Reserved 1452 Trace-Collection-Entity Address 1455 Reserved - 1456 Reserved - 1457 Roaming-Restricted-Due-To-Unsupported-Feature Grouped 1458 Reserved - 1459 Trace-Depth Enumerated 1460 Reserved - 1461 Reserved - 1462 Trace-Depth Enumerated 1463 Trace-Depth Enumerated 1464 Reserved - 1465 Trace-Depth Enumerated 1466 OMC-Id OctetString 1467 OctetString OctetString 1468 OctetString OctetString 1469 PDN-Type Enumerated 1460 OctetString OctetString 1461 Reserved - 1462 Trace-Depth Enumerated 1463 Trace-Ne-Frype-List OctetString 1464 OctetString OctetString 1465 OctetString OctetString 1466 OMC-Id OctetString 1471 OctetString OctetString 1471				
1430 APN-Configuration				
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1472 Specific-APN-Info Grouped				
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	1473 L0	CS-Info	Grouped	

1474 GMLC-Number	OctetString		
1475 LCS-PrivacyException	Grouped		
1476 SS-Code	OctetString		
1477 SS-Status	OctetString		
1478 Notification-To-UE-User	Enumerated		
1479 External-Client	Grouped		
1480 Client-Identity	OctetString		
1481 GMLC-Restriction	Enumerated		
1482 PLMN-Client	Enumerated		
1483 Service-Type	Grouped		
1484 ServiceTypeIdentity	Unsigned32		
1485 MO-LR	Grouped		
1486 Teleservice-List	Grouped		
1487 TS-Code	Enumerated		
1488 Call-Barring-Info	Grouped		
1489 SGSN-Number	OctetString		
1490 IDR-Flags	Unsigned32		
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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	<u> </u>	
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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	_		
1515 Reserved	_	29.273 [20]	
1516 Full-Network-Name	OntotCt=:===		
	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	ring	
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	ed64	

4507 M	T 11 : 100	1
1537 Maximum-Wait-Time	Unsigned32	4
1538 Emergency-Services	Unsigned32 Unsigned32	
1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result	Unsigned32	-
1541 ERP-Authorization	Unsigned32	
Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273		
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 30		GPP TS
29.273 from Rel-12.	or 10 20.204 and is now defined in a	011 10
1600 MME-Location-Information	Grouped	
1601 SGSN-Location-Information	Grouped	
1602 E-UTRAN-Cell-Global-Identity	OctetString	
1603 Tracking-Area-Identity	OctetString	
1604 Cell-Global-Identity	OctetString	
1605 Routing-Area-Identity	OctetString	
1606 Location-Area-Identity	OctetString	
1607 Service-Area-Identity	OctetString	
1608 Geographical-Information	OctetString	
1609 Geodetic-Information	OctetString	
1610 Current-Location-Retrieved	Enumerated	
1611 Age-Of-Location-Information	Unsigned32	1
1612 Active-APN	Grouped	
1613 SIPTO-Permission	Enumerated	4
1614 Error-Diagnostic	Enumerated	4
1615 UE-SRVCC-Capability	Enumerated	
1616 MPS-Priority	Unsigned32	
1617 VPLMN-LIPA-Allowed	Enumerated	
1618 LIPA-Permission	Enumerated	4
1619 Subscribed-Periodic-RAU-TAU-Timer	Unsigned32	
1620 Ext-PDP-Type 1621 Ext-PDP-Address	OctetString Address	
1622 MDT-Configuration	Grouped	-
1623 Job-Type	Enumerated	
1624 Area-Scope	Grouped	
1625 List-Of-Measurements	Unsigned32	
1626 Reporting-Trigger	Unsigned32	-
1627 Report-Interval	Enumerated	1
1628 Report-Amount	Enumerated	29.272
1629 Event-ThresholdRSRP	Unsigned32	[21]
1630 Event-ThresholdRSRQ	Unsigned32	1
1631 Logging-Interval	Enumerated	
1632 Logging-Duration	Enumerated	
1633 Relay-Node-Indicator	Enumerated	1
1634 MDT-User-Consent	Enumerated	1
1635 PUR-Flags	Unsigned32	1
1636 Subscribed-VSRVCC	Enumerated	
1637 Equivalent-PLMN-List	Grouped	
1638 CLR-Flags	Unsigned32	
1639 UVR-Flags	Unsigned32	
1640 UVA-Flags	Unsigned32	
1641 VPLMN-CSG-Subscription-Data	Grouped	
1642 Time-Zone	UTF8String	
1643 A-MSISDN	OctetString	4
1644 Reserved	-	4
1645 MME-Number-for-MT-SMS	OctetString	4
1646 Reserved	-	4
1647 Reserved		4
1648 SMS-Register-Request	Enumerated	4
1649 Local-Time-Zone	Grouped	4
1650 Daylight-Saving-Time	Enumerated	4
1651 GMLC-Info	Grouped	4
1652 GMLC-Name	DiameterIdentity DiameterIdentity	4
1653 GMLC-Realm	DiameterIdentity	4
1654 Subscription-Data-Flags 1655 Measurement-Period-LTE	Unsigned32 Enumerated	+
1656 Measurement-Period-LTE	Enumerated Enumerated	+
1000 Measure ment-renou-OMTS		1

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 Collection-Period-RRM-LTE	Enumerated	
Collection-Period-RRM-UMTS	Enumerated	
Positioning-Method	OctetString	
Measurement-Quantity	OctetString	
Event-Threshold-Event-1F	Integer32	
 Event-Threshold-Event-1I	Integer32	
Restoration-Priority	Unsigned32	
SGs-MME-Identity	UTF8String	
SIPTO-Local-Network-Permission	Unsigned32	
Coupled-Node-Diameter-ID	DiameterIdentity	
VLAN-offloadability	Grouped	
VLAN-offloadability-EUTRAN	Unsigned32	
 NLAN-offloadability-UTRAN	Unsigned32	
Reset-ID	OctetString	
MDT-Allowed-PLMN-Id	OctetString	
Adjacent-PLMNs	Grouped	
Adjacent-Access-Restriction-Data	Grouped	
DL-Buffering-Suggested-Packet-Count	Integer32	
MSI-Group-Id	Grouped	
Group-Service-Id	Unsigned32	
Group-PLMN-Id	OctetString	
Local-Group-Id	OctetString	
AIR-Flags	Unsigned32	
UE-Usage-Type	Unsigned32 Enumerated	
Non-IP-PDN-Type-Indicator		
Non-IP-Data-Delivery-Mechanism	Unsigned32	
Additional-Context-Identifier SCEF-Realm	Unsigned32	
	DiameterIdentity	
Subscription-Data-Deletion	Grouped	
Preferred-Data-Mode Emergency-Info	Unsigned32 Grouped	
∠2X-Subscription-Data	Grouped	
V2X-Subscription-Data V2X-Permission	Unsigned32	
PDN-Connection-Continuity	Unsigned32	
eDRX-Cycle-Length	Grouped	
eDRX-Cycle-Length-Value	OctetString	
UE-PC5-AMBR	Unsigned32	
MBSFN-Area	Grouped	
MBSFN-Area-ID	Unsigned32	
 Carrier-Frequency	Unsigned32	
The AVP codes from 1697 to 1699 are reserved for TS 29.272.	Offsigned32	
SMS-Information	Grouped	
Data-Coding-Scheme	Integer32	
Destination-Interface	Grouped	
nterface-Id	UTF8String	
nterface-ru nterface-Port	UTF8String	
nterface-Text	UTF8String	
nterface-Type	Enumerated	
SM-Message-Type	Enumerated	
Originating-SCCP-Address	Address	
Originator-Interface	Grouped	
Recipient-SCCP-Address	Address	
Reply-Path-Requested	Enumerated	32.299
SM-Discharge-Time	Time	[5]
SM-Protocol-ID	OctetString	[~]
SM-Status	OctetString	
SM-User-Data-Header	OctetString	
SMS-Node	Enumerated	
SMSC-Address	Address	
Client-Address	Address	
Number-of-Messages-Sent	Unsigned32	
Low-Balance-Indication	Enumerated	
Remaining-Balance	Grouped	
Refund-Information	OctetString	
Carrier-Select-Routing-Information	UTF8String	
 	311 0001119	

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2024 Number-Portability-Routing-Information	UTF8String	
2025 PoC-Event-Type	Enumerated	
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 2033 Subscriber-Role	Unsigned32	
2033 Subscriber-Role 2034 Number-Of-Diversions	Enumerated Unsigned32	
2035 Associated-Party-Address	UTF8String	
2036 SDP-Type	Enumerated	1
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-Last-osage	Unsigned32	
2046 Traffic-Data-Volumes	Grouped	
2047 Serving-Node-Type	Enumerated	
2048 Supplementary-Service	Grouped	
2049 Participant-Action-Type	Enumerated	
2050 PDN-Connection-Charging-ID	Unsigned32	
2051 Dynamic-Address-Flag	Enumerated	
2052 Accumulated-Cost	Grouped	
2053 AoC-Cost-Information	Grouped	
2054 AoC-Information	Grouped	
2055 AoC-Request-Type	Enumerated	
2056 Current-Tariff	Grouped	
2057 Next-Tariff	Grouped	
2058 Rate-Element	Grouped	
2059 Scale-Factor	Grouped	
2060 Tariff-Information	Grouped	
2061 Unit-Cost	Grouped	
2062 Incremental-Cost	Grouped	
2063 Local-Sequence-Number	Unsigned32	
2064 Node-Id	UTF8String	
2065 SGW-Change	Enumerated	
2066 Charging-Characteristic-Selection-Mode	Enumerated	
2067 SGW-Address	Address	
2068 Dynamic-Address-Flag-Extension	Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.	<u> </u>	
2100 reserved	- LITEOOG-i	
2101 Application-Server-ID	UTF8String	
2102 Application-Service-Type	Enumerated	
2103 Application-Session-ID	Unsigned32	
2104 Delivery-Status 2105 reserved	UTF8String	
	-	
2106 reserved 2107 reserved	-	
2107 reserved 2108 reserved	-	
2109 reserved		32.299
2110 IM-Information	Grouped	[5]
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	
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Note: The AVP codes from 2119 to 2199 are reserved for TS 32,299.		
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
2202 Subsession-Id	Unsigned32	
2203 Subsession-Operation	Enumerated	
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 2306 Tariff-XML	Grouped UTF8String	
2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
2309 Account-Expiration	Time	
2310 AoC-Format	Enumerated	
2311 AoC-Service	Enumerated	32,299
2312 AoC-Service-Obligatory-Type	Grouped	[5]
2313 AoC-Service-Type	Enumerated	[0]
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.		1
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets 2405 GMLC-Address	Unsigned32	20.472
2406 Additional-Serving-Node	Address Grouped	29.173
2407 PPR-Address	Address	[25]
2407 FFR-Address 2408 MME-Realm	DiameterIdentity	
2409 SGSN-Name	DiameterIdentity	
2410 SGSN-Realm	DiameterIdentity	
2411 RIA-Flags	Unsigned32	
Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173.	1 Onsignous	
2500 SLg-Location-Type	Enumerated	
2501 LCS-EPS-Client-Name	Grouped	
2502 LCS-Requestor-Name	Grouped	
2503 LCS-Priority	Unsigned32	
2504 LCS-QoS	Grouped	
2505 Horizontal-Accuracy	Unsigned32	
2506 Vertical-Accuracy	Unsigned32	
2507 Vertical-Requested	Enumerated	29.172
2508 Velocity-Requested	Enumerated	[24]
2509 Response-Time	Enumerated	
	Unsigned32	
2510 Supported-GAD-Shapes		
2511 LCS-Codeword	UTF8String	
2511 LCS-Codeword 2512 LCS-Privacy-Check	UTF8String Enumerated	
2511 LCS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator	UTF8String Enumerated Enumerated	
2511 LCS-Codeword 2512 LCS-Privacy-Check	UTF8String Enumerated	

2516 EUTRAN-Positioning-Data	OctetString	
2517 ECGI	OctetString	
2518 Location-Event	Enumerated	
2519 Pseudonym-Indicator	Enumerated	
2520 LCS-Service-Type-ID	Unsigned32	
2521 LCS-Privacy-Check-Non-Session	Grouped	
2522 LCS-Privacy-Check-Session	Grouped	
2523 LCS-QoS-Class	Enumerated	
2524 GERAN-Positioning-Info	Grouped	
2525 GERAN-Positioning-Data	OctetString	
2526 GERAN-GANSS-Positioning-Data	OctetString	
2527 UTRAN-Positioning-Info	Grouped	
2528 UTRAN-Positioning-Data	OctetString	
2529 UTRAN-GANSS-Positioning-Data	OctetString	
2530 LRR-Flags	Unsigned32	
2531 LCS-Reference-Number	OctetString	
2532 Deferred-Location-Type	Unsigned32	
2533 Area-Event-Info	Grouped	
2534 Area-Definition	Grouped	
2535 Area	Grouped	
2536 Area-Type	Unsigned32	
2537 Area-Identification	Grouped	
2538 Occurrence-Info	Enumerated	
2539 Interval-Time	Unsigned32	
2540 Periodic-LDR-Information	Grouped	
2541 Reporting-Amount	Unsigned32	
2542 Reporting-Interval	Unsigned32	
2543 Reporting-PLMN-List	Grouped	
2544 PLMN-ID-List	Grouped	
2545 PLR-Flags	Unsigned32	
2546 PLA-Flags	Unsigned32	
2547 Deferred-MT-LR-Data	Grouped	
2548 Termination-Cause	Unsigned32	
2549 LRA-Flags	Unsigned32	
2550 Periodic-Location-Support-Indicator	Enumerated	
2551 Prioritized-List-Indicator	Enumerated	
2552 ESMLC-Cell-Info	Grouped	
2553 Cell-Portion-ID	Unsigned32	
2554 1xRTT-RCID	OctetString	
2555 Delayed-Location-Reporting-Data	Grouped	
2556 Civic-Address	UTF8String	
2557 Barometric-Pressure	Unsigned32	
2558 UTRAN-Additional-Positioning-Data	OctetString	
2559 Motion-Event-Info	Grouped	
2560 Linear-Distance 2561 Maximum-Interval	Unsigned32	
	Unsigned32 Unsigned32	
2562 Sampling-Interval	Ŭ	
2563 Reporting Duration	Unsigned32 Unsigned32	
2564 Reporting-Location-Requirements 2565 Additional-Area	Grouped	
Note: The AVP codes from 2566 to 2599 are reserved for TS 29.172.	Grouped	
2600 reserved	1	
2601 IMS-Application-Reference-Identifier	- UTF8String	
2602 Low-Priority-Indicator	Enumerated	
2603 IP-Realm-Default-Indicator	Enumerated	32.299
2604 Local-GW-Inserted-Indicator	Enumerated	[5]
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.	Offisighted02	
2700 Reserved		
2700 Reserved 2701 Transit-IOI-List	- UTF8String	
2701 Harist-Or-List 2702 Status-AS-Code	Enumerated	32.299
2703 NNI-Information	Grouped	52.299 [5]
2704 NNI-Type	Enumerated	[0]
2704 NNI-Type 2705 Neighbour-Node-Address	Address	
21 00 14619 1000 - 1000 - 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000	Audicaa	

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2706 Relationship-Mode	Enumerated	
2707 Session-Direction	Enumerated	
2708 From-Address	UTF8String	
2709 Access-Transfer-Information	Grouped	
2710 Access-Transfer-Type	Enumerated	
2711 Related-IMS-Charging-Identifier	UTF8String	
2712 Related-IMS-Charging-Identifier-Node	Address	
2713 IMS-Visited-Network-Identifier	UTF8String	
2714 TWAN-User-Location-Info	Grouped	
2715 Reserved	-	
2716 BSSID	UTF8String	
2717 TAD-Identifier	Enumerated	
Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299		ı
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	
	Grouped	
2818 Conditional-APN-Aggregate-Max-Bitrate 2819 RAN-NAS-Release-Cause		
	OctetString	
2820 Presence-Reporting-Area-Elements-List	OctetString	
2821 Presence-Reporting-Area-Identifier	OctetString	
2822 Presence-Reporting-Area-Information	Grouped	
2823 Presence-Reporting-Area-Status	Unsigned32	29.212
2824 NetLoc-Access-Support	Unsigned32	[19]
2825 Fixed-User-Location-Info	Grouped	
2826 PCSCF-Restoration-Indication	Unsigned32	
2827 IP-CAN-Session-Charging-Scope	Enumerated	
2828 Monitoring-Flags	Unsigned32	
2829 Default-Access	Enumerated	
2830 NBIFOM-Mode	Enumerated	
2831 NBIFOM-Support	Enumerated	
2832 RAN-Rule-Support	Unsigned32	
2833 Access-Availability-Change-Reason	Unsigned32	
2834 Routing-Rule-Failure-Code	Unsigned32	
2835 Routing-Rule-Report	Grouped	
2836 Traffic-Steering-Policy-Identifier-DL	OctetString	
2837 Traffic-Steering-Policy-Identifier-UL	OctetString	
2838 Request-Type	Unsigned32	
2839 Execution-Time	Time	
2840 Conditional-Policy-Information	Grouped	
2841 Resource-Release-Notification	Enumerated	
2842 Removal-Of-Access	Enumerated	
2843 TCP-Source-Port	Unsigned32	
2844 Default-Bearer-Indication	Enumerated	
2845 PRA-Install	Grouped	
2846 PRA-Remove	Grouped	
2847 3GPP-PS-Data-Off-Status	Enumerated	
Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212		ı
2900 reserved	-	
2901 Policy-Counter-Identifier		20 210
	Grouped	29.219
2902 Policy-Counter-Status	Grouped UTF8String	[26]

2903 Policy-Counter-Status-Report			1
Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219.		•	
3000 Device-Action		Enumerated	
3001 Device-Action Grouped			
Grouped Gr		-	
Grouped Grou	3001 Device-Action	Grouped	
3005 Action-Type	3002 Device-Notification		
29.368	3003 Trigger-Data	Grouped	
29,568 27	3004 Payload	OctetString	
29,568 27	3005 Action-Type	Enumerated	00.000
		Enumerated	
1908 Request-Status		Unsigned32	[27]
Delivery-Outcome			
3010 Id-Reference-Number			
3011 Fold-Reference-Number			
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.			
		Unsignedsz	
		0-4-404	
Service-ID			
Scel-dentity			
Service-Parameters			
1016 T4-Parameters Grouped			
1010 Service-Data Grouped			
1018 T4-Data			
109 HSS-Cause			
109 HSS-Cause			
String Incomplete Incompl	3109 HSS-Cause	Unsigned32	
String Internal-Identifier Internal	3110 SIR-Flags	Unsigned32	
IP-SM-GW-Realm	3111 External-Identifier		
3113 AESE-Communication-Pattern Grouped Grouped			
3114 Communication-Pattern-Set Grouped 3115 Periodic-Communication-Indicator Unsigned32 3116 Communication-Duration-Time Unsigned32 3117 Periodic-Time Unsigned32 3118 Scheduled-Communication-Time Unsigned32 3118 Scheduled-Communication-Time Unsigned32 3119 Stationary-Indication Unsigned32 3120 AESE-Communication-Pattern-Config-Status Grouped 3121 AESE-Error-Report Grouped 3122 Monitoring-Event-Configuration Grouped 3123 Monitoring-Event-Report Grouped 3124 SCEF-Reference-ID Unsigned32 3125 SCEF-ID DiameterIdentity 3126 SCEF-ID DiameterIdentity 3126 SCEF-Reference-ID-for-Deletion Unsigned32 3128 Maximum-Number-of-Reports Unsigned32 3129 UE-Reachability-Configuration Grouped 3130 Monitoring-Duration Time Unsigned32 3129 UE-Reachability-Configuration Grouped 3131 Maximum-Detection-Time Unsigned32 3134 Maximum-Response-Time 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 3139 Roaming-Information Unsigned32 3139 Roaming-Information Unsigned32 31319 Roaming-Information Unsigned32 31310 Monitoring-Event-Config-Status Grouped 3145 Supported-Monitoring-Event-Mask Unsigned34 Unsigned34 3146 Service-Result Grouped Servic			
3115 Periodic-Communication-Indicator Unsigned32 3116 Communication-Duration-Time Unsigned32 3118 Scheduled-Communication-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-Configuration Grouped 3123 Monitoring-Event-Report Grouped 3124 SCEF-Reference-ID Unsigned32 3125 SCEF-ID DiameterIdentity 3126 SCEF-Reference-ID-for-Deletion Unsigned32 3127 Monitoring-Type Unsigned32 3128 Maximum-Number-of-Reports Unsigned32 3129 UE-Reachability-Configuration Grouped 3130 Monitoring-Duration Time Unsigned32 3131 Maximum-Detection-Time Unsigned32 3132 Reachability-Type Unsigned32 3133 Maximum-Letency Unsigned32 3134 Maximum-Response-Time Unsigned32 3135 Location-Information-Configuration Grouped Grouped 3136 MONTE-Location-Type Unsigned32 3137 Accuracy Unsigned32 3138 Association-Type Unsigned32 3139 Roaming-Information Unsigned32 3139 Roaming-Information Unsigned32 3139 Roaming-Information Unsigned32 31319 Roaming-Information Unsigned32 3134 Mellor-Change Unsigned32 3134 Supported-Service-Masks Grouped 3134 Supported-Service-Masks Unsigned64 3145 CIR-Flags Unsigned32 3134 CiR-Flags Unsigned32 3134 Grouped 3134 Supported-Monitoring-Event-Mask Unsigned32 3134 Grouped 3134 Service-Result Grouped 3134 Service-Result Grouped 3134 Service-Result Grouped Grouped 3134 Service-Result Grouped Gr			
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-Configuration Grouped 3124 SCEF-Reference-ID Unsigned32 3125 SCEF-ID Unsigned32 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 Unsigned32 3131 Maximum-Detection-Time Unsigned32 3131 Maximum-Detection-Time 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 3139 Roaming-Information Unsigned32 3139 Roaming-Information Unsigned32 3131 Meaning-Information Unsigned32 3131 Meaning-I			
3117 Periodic-Time			
3118 Scheduled-Communication-Time Grouped			
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3122 Monitoring-Event-Configuration Grouped			
3123 Monitoring-Event-Report Grouped 3124 SCEF-Reference-ID Unsigned32 [28] SCEF-ID 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 3132 Reachability-Type Unsigned32 3133 Maximum-Latency Unsigned32 3134 Maximum-Response-Time Unsigned32 3135 Location-Information-Configuration Grouped 3136 MONTE-Location-Type Unsigned32 3137 Accuracy Unsigned32 3138 Association-Type Unsigned32 3139 Roaming-Information Unsigned32 3140 Reachability-Information Unsigned32 3141 MEI-Change Unsigned32 3142 Monitoring-Event-Config-Status Grouped 3144 Supported-Service-Masks Grouped 3145 CIR-Flags Unsigned32 3146 Service-Result Grouped Grouped Grouped 3145 Service-Result Grouped Gro			
3124 SCEF-Reference-ID			
3125 SCEF-ID 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 3139 Roaming-Information Unsigned32 3140 Reachability-Information Unsigned32 3141 IMEI-Change Unsigned32 3142 Monitoring-Event-Config-Status Grouped 3144 Supported-Service-Masks Grouped 3145 CIR-Flags Unsigned32 3146 Service-Result Grouped Grouped Grouped 3145 CIR-Flags Unsigned32 3146 Service-Result Grouped Grouped Grouped 3146 Service-Result Grouped Grouped			
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3143Supported-Service-MasksGrouped3144Supported-Monitoring-Event-MaskUnsigned643145CIR-FlagsUnsigned323146Service-ResultGrouped			
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3145 CIR-Flags Unsigned32 3146 Service-Result Grouped			
3146 Service-Result Grouped			
3147 Service-Result-Code Unsigned32			
	3147 Service-Result-Code	Unsigned32	

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3148 Reference-ID-Validity-Time	Time	
3149 Event-handling	Unsigned32	
3150 NIDD-Authorization-Request	Grouped	
3151 NIDD-Authorization-Response	Grouped	
3152 Service-Report	Grouped	
3153 Node-Type	Unsigned32	
3154 S6t-HSS-Cause	Unsigned32	
3155 Enhanced-Coverage-Restriction	Grouped	
3156 Enhanced-Coverage-Restriction-Data	Grouped	
3157 Restricted-PLMN-List	Grouped	
3158 Allowed-PLMN-List	Grouped	
3159 Requested-Validity-Time	Time	
3160 Granted-Validity-Time	Time	
3161 NIDD-Authorization-Update	Grouped	
3162 Loss-Of-Connectivity-Reason	Unsigned32	
3163 Group-Reporting-Guard-Timer	Unsigned32	
3164 CIA-Flags	Unsigned32	
3165 Group-Monitoring-Event-Report	Grouped	
3166 Group-Monitoring-Event-Report-Item	Grouped	
3167 RIR-Flags	Unsigned32	
3168 Type-Of-External-Identifier	Unsigned32	
3169 APN-Validity-Time	Grouped	
Note: The AVP codes from 3170 to 3199 are reserved for TS 29.336.		
3200 SM-Delivery-Outcome-T4	Enumerated	
3201 Absent-Subscriber-Diagnostic-T4	Enumerated	29.337
3202 Trigger-Action	Unsigned32	[29]
3203 MTC-Error-Diagnostic	Unsigned32	[=0]
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.	energine de L	
3300 SC-Address	OctetString	
3301 SM-RP-UI	OctetString	
3302 TFR-Flags	Unsigned32	
3303 SM-Delivery- Failure-Cause	Grouped	
3304 SM-Enumerated-Delivery-Failure-Cause	Enumerated	
3305 SM-Diagnostic-Info	OctetString	
3306 SM-Delivery-Timer	Unsigned32	
3307 SM-Delivery-Start-Time	Time	_
3308 SM-RP-MTI	Enumerated	
3309 SM-RP-SMEA 3310 SRR-Flags	OctetString	
	Unsigned32	
3311 SM-Delivery-Not-Intended	Enumerated	
3312 MWD-Status	Unsigned32	
3313 MME-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3314 MSC-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3315 SGSN-Absent-User-Subscriber-Diagnostic SM	Unsigned32	
3316 SM-Delivery-Outcome	Grouped	29.338
3317 MME-SM-Delivery-Outcome	Grouped	[30]
3318 MSC-SM-Delivery-Outcome	Grouped	
3319 SGSN-SM-Delivery-Outcome	Grouped	
3320 IP-SM-GW-SM-Delivery-Outcome	Grouped	
3321 SM-Delivery-Cause	Enumerated	
3322 Absent-User-Diagnostic-SM	Unsigned32	
3323 RDR-Flags	Unsigned32	
3324 SMSMI-Correlation-ID	Unsigned32	
3325 HSS-ID	UTF8String	
3326 Originating-SIP-URI	UTF8String	
3327 Destination-SIP-URI	UTF8String	
3328 OFR-Flags	Unsigned32	
3329 Maximum-UE-Availability-Time	Time	
3330 Maximum-Retransmission-Time	Time	
3331 Requested-Retransmission-Time	Time	
3332 SMS-GMSC-Address	OctetString	
3333 SMS-GMSC-Alert-Event	Unsigned32	
Note: The AVP codes from 3334 to 3399 are reserved for TS 29.338.		•
3400 reserved	-	32.299
3401 Reason-Header	UTF8String	[5]
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3402	Instance-Id	UTF8String
	Route-Header-Received	UTF8String
	Route-Header-Transmitted	UTF8String
	SM-Device-Trigger-Information	Grouped
	MTC-IWF-Address	Address
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
	CN-Operator-Selection-Entity	Enumerated
	ISUP-Cause-Diagnostics	OctetString
	ISUP-Cause-Location	Unsigned32
	ISUP-Cause-Value	Unsigned32
	EPDG-Address	Address
	Announcing-UE-HPLMN-Identifier	UTF8String
	Announcing-UE-VPLMN-Identifier	
		UTF8String
	Coverage-Status	Enumerated
	Layer-2-Group-ID	OctetString
	Monitored-PLMN-Identifier	UTF8String
	Monitoring-UE-HPLMN-Identifier	UTF8String
	Monitoring-UE-Identifier	UTF8String
	Monitoring-UE-VPLMN-Identifier	UTF8String
	ProSe-PC3-Control-Protocol-Cause	Integer32
	ProSe-PC3-EPC-Control-Protocol-Cause	Integer32
	Requested-PLMN-Identifier	UTF8String
	Requestor-PLMN-Identifier	UTF8String
	Role-Of-ProSe-Function	Enumerated
	Usage-Information-Report-Sequence-Number	Integer32
3440	ProSe-3rd-Party-Application-ID	UTF8String
	DroCo Direct Communication Transmission Data Container	
	ProSe-Direct-Communication-Transmission-Data-Container	Grouped
3442	ProSe-Direct-Discovery-Model	Grouped Enumerated
3442		
3442 3443	ProSe-Direct-Discovery-Model	Enumerated
3442 3443 3444 3445	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality	Enumerated Enumerated
3442 3443 3444 3445	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address	Enumerated Enumerated Address
3442 3443 3444 3445 3446	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality	Enumerated Enumerated Address Enumerated
3442 3443 3444 3445 3446 3447	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses	Enumerated Enumerated Address Enumerated Address
3442 3443 3444 3445 3446 3447 3448	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information	Enumerated Enumerated Address Enumerated Address Grouped
3442 3443 3444 3445 3446 3447 3448 3449	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated
3442 3443 3444 3445 3446 3447 3448 3449 3450	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time
3442 3443 3444 3445 3446 3447 3448 3449 3450 3451	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp ProSe-Role-Of-UE	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time Enumerated
3442 3443 3444 3445 3446 3447 3448 3450 3451 3452	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp ProSe-Role-Of-UE ProSe-Source-IP-Address	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time Enumerated Address
3442 3443 3444 3445 3446 3447 3448 3450 3450 3451 3452 3453	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp ProSe-Role-Of-UE ProSe-Source-IP-Address ProSe-UE-ID	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time Enumerated Address OctetString
3442 3443 3444 3445 3446 3447 3448 3450 3451 3452 3453 3454	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp ProSe-Role-Of-UE ProSe-Source-IP-Address ProSe-UE-ID Proximity-Alert-Indication	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time Enumerated Address OctetString Enumerated
3442 3443 3444 3445 3446 3447 3448 3450 3451 3452 3453 3454 3455	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp ProSe-Role-Of-UE ProSe-Source-IP-Address ProSe-UE-ID Proximity-Alert-Indication Proximity-Alert-Timestamp	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time Enumerated Address OctetString Enumerated Time
3442 3443 3444 3445 3446 3447 3448 3450 3451 3452 3453 3454 3455 3456	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp ProSe-Role-Of-UE ProSe-Source-IP-Address ProSe-UE-ID Proximity-Alert-Indication Proximity-Alert-Timestamp Proximity-Cancellation-Timestamp	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time Enumerated Address OctetString Enumerated Time Time Time
3442 3443 3444 3445 3446 3447 3448 3450 3451 3452 3453 3454 3455 3456 3457	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp ProSe-Role-Of-UE ProSe-Source-IP-Address ProSe-UE-ID Proximity-Alert-Indication Proximity-Alert-Timestamp Proximity-Cancellation-Timestamp ProSe-Function-PLMN-Identifier	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time Enumerated Address OctetString Enumerated Time Time UTF8String
3442 3443 3444 3445 3446 3447 3448 3450 3451 3452 3453 3454 3455 3456 3457 3458	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp ProSe-Role-Of-UE ProSe-Source-IP-Address ProSe-UE-ID Proximity-Alert-Indication Proximity-Alert-Timestamp Proximity-Cancellation-Timestamp ProSe-Function-PLMN-Identifier Application-Specific-Data	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time Enumerated Address OctetString Enumerated Time Time UTF8String OctetString
3442 3443 3444 3445 3446 3447 3448 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp ProSe-Role-Of-UE ProSe-Source-IP-Address ProSe-UE-ID Proximity-Alert-Indication Proximity-Alert-Timestamp Prose-Function-PLMN-Identifier Application-Specific-Data Coverage-Info	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time Enumerated Address OctetString Enumerated Time UTF8String OctetString Grouped
3442 3443 3444 3445 3446 3447 3448 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3460	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp ProSe-Role-Of-UE ProSe-Source-IP-Address ProSe-UE-ID Proximity-Alert-Indication Proximity-Alert-Timestamp Prose-Function-PLMN-Identifier Application-Specific-Data Coverage-Info Location-Info	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time Enumerated Address OctetString Enumerated Time UTF8String Grouped Grouped
3442 3443 3444 3445 3446 3447 3448 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3460 3461	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp ProSe-Role-Of-UE ProSe-Source-IP-Address ProSe-UE-ID Proximity-Alert-Indication Proximity-Alert-Timestamp Prose-Function-PlMN-Identifier Application-Specific-Data Coverage-Info Location-Info ProSe-Direct-Communication-Reception-Data-Container	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time Enumerated Address OctetString Enumerated Time UTF8String Grouped Grouped Grouped
3442 3443 3444 3445 3446 3447 3448 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3460 3461 3461	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp ProSe-Role-Of-UE ProSe-Source-IP-Address ProSe-UE-ID Proximity-Alert-Indication Proximity-Alert-Timestamp Prose-Function-PLMN-Identifier Application-Specific-Data Coverage-Info Location-Info ProSe-Direct-Communication-Reception-Data-Container Radio-Frequency	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time Enumerated Address OctetString Enumerated Time UTF8String Grouped Grouped Grouped OctetString
3442 3443 3444 3445 3446 3447 3448 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3460 3461 3462 3463	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp ProSe-Role-Of-UE ProSe-Source-IP-Address ProSe-UE-ID Proximity-Alert-Indication Proximity-Alert-Timestamp Proximity-Alert-Timestamp Prose-Function-PLMN-Identifier Application-Specific-Data Coverage-Info Location-Info ProSe-Direct-Communication-Reception-Data-Container Radio-Parameter-Set-Info	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time Enumerated Address OctetString Enumerated Time UTF8String Grouped Grouped Grouped OctetString Grouped OctetString Grouped
3442 3443 3444 3445 3446 3447 3448 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3460 3461 3462 3463 3464	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp ProSe-Role-Of-UE ProSe-Source-IP-Address ProSe-UE-ID Proximity-Alert-Indication Proximity-Alert-Timestamp Proximity-Alert-Timestamp Prose-Function-PLMN-Identifier Application-Specific-Data Coverage-Info Location-Info ProSe-Direct-Communication-Reception-Data-Container Radio-Parameter-Set-Info Radio-Parameter-Set-Values	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time Enumerated Address OctetString Grouped Time UTF8String Grouped Grouped Grouped Grouped OctetString Grouped OctetString
3442 3443 3444 3445 3446 3447 3448 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3460 3461 3462 3463 3464 3465	ProSe-Direct-Discovery-Model ProSe-Event-Type ProSe-Function-IP-Address ProSe-Functionality ProSe-Group-IP-Multicast-Addresses ProSe-Information ProSe-Range-Class ProSe-Reason-For-Cancellation ProSe-Request-Timestamp ProSe-Role-Of-UE ProSe-Source-IP-Address ProSe-UE-ID Proximity-Alert-Indication Proximity-Alert-Timestamp Proximity-Alert-Timestamp Prose-Function-PLMN-Identifier Application-Specific-Data Coverage-Info Location-Info ProSe-Direct-Communication-Reception-Data-Container Radio-Parameter-Set-Info	Enumerated Enumerated Address Enumerated Address Grouped Enumerated Enumerated Time Enumerated Address OctetString Enumerated Time UTF8String Grouped Grouped Grouped OctetString Grouped OctetString Grouped

0.407	T. F. 4 T		_
	Time-First-Transmission	Time	_
	Transmitter-Info The AVP codes from 3469 to 3499 are reserved for TS 32.299.	Grouped	
		A.1.1	
	BMSC-Address	Address	
	BMSC-Port	Unsigned32	
	MBMS-Bearer-Event	Unsigned32	
	MBMS-Bearer-Event-Notification	Grouped	
	MBMS-Bearer-Request	Grouped	
	MBMS-Bearer-Response	Grouped	_
	MBMS-Bearer-Result	Unsigned32	_
	MBMS-Start-Time	Time	_
	Radio-Frequency	Unsigned32	_
	TMGI-Allocation-Request	Grouped	
	TMGI-Allocation-Response	Grouped	
	TMGI-Allocation-Result	Unsigned32	29.468
	TMGI-Deallocation-Request	Grouped	[31]
	TMGI-Deallocation-Response	Grouped	[0.]
	TMGI-Deallocation-Result	Unsigned32	
	TMGI-Expiry	Grouped	
	TMGI-Number	Unsigned32	
	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	
	The AVP codes from 3525 to 3599 are reserved for TS 29.468.	<u> </u>	•
	Origin-App-Layer-User-Id	UTF8String	
	Target-App-Layer-User-Id	UTF8String	
	ProSe-Function-ID	OctetString	
	ProSe-Request-Type	Unsigned32	
	PDUID	OctetString	
	Application-Data	UTF8String	
	Allowed-Suffixes-Number	Unsigned32	29.343
	Monitor-Target	Grouped	[32]
	ProSe-Code-Suffix-Mask	Grouped	
	Suffix-Code	OctetString	
	Suffix-Mask	OctetString	
	Banned-User-Target	Grouped	
	Metadata-Indicator	Unsigned32	
	The AVP codes from 3613 to 3699 are reserved for TS 29.343.	Onsignedoz	
	ProSe-Subscription-Data	Grouped	
	ProSe-Permission	Unsigned32	-
	ProSe-Allowed-PLMN	Grouped	\dashv
	ProSe-Allowed-PLININ ProSe-Direct-Allowed	Unsigned32	30.244
			29.344
	UPR-Flags	Unsigned32	[33]
	PNR-Flags	Unsigned32	\dashv
	ProSe-Initial-Location-Information	Grouped	\dashv
	Authorized-Discovery-Range	Unsigned32	
	The AVP codes from 3709 to 3799 are reserved for TS 29.344.		
	Reserved	LITEO C. :	\dashv
	App-Layer-User-Id	UTF8String	\dashv
	Assistance-info	Grouped	_
	Assistance-Info-Validity-Timer	Unsigned32	
	Discovery-Type	Unsigned32	_
	Filter-Id	OctetString	29.345
	MAC-Address	UTF8String	[34]
	Match-Report	Grouped	_ [、,]
	Operating-Channel	Unsigned32	_
	P2P-Features	Unsigned32	_
	ProSe-App-Code	UTF8String	
	ProSe-App-ld ProSe-App-Mask	UTF8String UTF8String	

3813 ProSe-Discovery-Filter	Grouped	
3814 PRR-Flags	Unsigned32	
3815 ProSe-Validity-Timer	Unsigned32	
3816 Requesting-EPUID	UTF8String	
3817 Targeted-EPUID	UTF8String	
3818 Time-Window	Unsigned32	1
3819 WiFi-P2P-Assistance-Info	Grouped	1
		4
3820 WLAN-Assistance-Info	Grouped	4
3821 WLAN-Link-Layer-Id	OctetString	
3822 WLAN-Link-Layer-Id-List	Grouped	
3823 Location-Update-Trigger	Grouped	
3824 Location-Update-Event-Type	Unsigned32	1
3825 Change-Of-Area-Type	Grouped	1
3826 Location-Update-Event-Trigger	Unsigned32	1
		-
3827 Report-Cardinality	Enumerated	4
3828 Minimum-Interval-Time	Unsigned32	
3829 Periodic-Location-Type	Grouped	
3830 Location-Report-Interval-Time	Unsigned32	
3831 Total-Number-Of-Reports	Unsigned32	1
3832 Validity-Time-Announce	Unsigned32	1
3833 Validity-Time-Monitor	Unsigned32	1
3834 Validity-Time-Communication	Unsigned32	†
		+
3835 ProSe-App-Code-Info	Grouped	4
3836 MIC	OctetString	1
3837 UTC-based-Counter	Unsigned32]
3838 ProSe-Match-Refresh-Timer	Unsigned32	
3839 ProSe-Metadata-Index-Mask	OctetString	
3840 App-Identifier	Grouped	1
3841 OS-ID	OctetString	1
		-
3842 OS-App-ID	UTF8String	4
3843 Requesting-RPAUID	UTF8String	
3844 Target-RPAUID	UTF8String	
3845 Target-PDUID	OctetString	
3846 ProSe-Restricted-Code	OctetString	
3847 ProSe-Restricted-Code-Suffix-Range	OctetString	1
3848 Beginning-Suffix	OctetString	1
3849 Ending-Suffix	OctetString	1
		4
3850 Discovery-Entry-ID	Unsigned32	1
3851 Match-Timestamp	Time	1
3852 PMR-Flags	Unsigned32	
3853 ProSe-Application-Metadata	UTF8String	
3854 Discovery-Auth-Request	Grouped	
3855 Discovery-Auth-Response	Grouped	1
3856 Match-Request	Grouped	1
	Grouped	†
3857 Match-Report-Info		1
3858 Banned-RPAUID	UTF8String	4
3859 Banned-PDUID	OctetString	1
3860 Code-Receiving-Security-Material	Grouped]
3861 Code-Sending-Security-Material	Grouped	
3862 DUSK	OctetString	Ī
3863 DUIK	OctetString	1
3864 DUCK		†
	OctetString	+
3865 MIC-Check-indicator	Unsigned32	4
3866 Encrypted-Bitmask	OctetString	1
3867 ProSe-App-Code-Suffix-Range	OctetString	
Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345.		
3900 Reserved		
3901 Enhanced-Diagnostics	Grouped	1
3902 Inter-UE-Transfer	Enumerated	1
		1
3903 TWAG-Address	Address	32.299
3904 Announcement-Information	Grouped	[5]
3905 Announcement-Identifier	Unsigned32	ا ا
3906 Announcement-Order	Unsigned32]
3907 Variable-Part	Grouped	
3908 Variable-Part-Order	Unsigned32	1
	g	1

	Variable-Part-Type	Unsigned32	_
	Variable-Part-Value	UTF8String	_
	Time-Indicator	Unsigned32	-
	Quota-Indicator Play-Alternative	Enumerated Enumerated	+
	Language	UTF8String	+
	Privacy-Indicator	Enumerated	+
	Called-Identity	UTF8String	+
	Called-Identity-Change	Grouped	_
	UWAN-User-Location-Info	Grouped	_
	Monitoring-Event-Configuration-Activity	Integer32	7
	Monitoring-Event-Report-Data	Grouped	7
	Monitoring-Event-Information	Grouped	
3922	Monitoring-Event-Functionality	Integer32	1
3923	Monitoring-Event-Report-Number	Unsigned32	
	Cellular-Network-Information	OctetString	
	Related-Change-Condition-Information	Grouped	
	Related-Trigger	Grouped	
	CPDT-Information	Grouped	
	NIDD-Submission	Grouped	
	Serving-Node-Identity	DiameterIdentity	_
	CP-CIoT-EPS-Optimisation-Indicator	Enumerated	_
	SGi-PtP-Tunnelling-Method	Enumerated	
	UNI-PDU-CP-Only-Flag	Enumerated	4
	APN-Rate-Control	Grouped	4
	APN-Rate-Control-Downlink	Grouped	_
	APN-Rate-Control-Uplink	Grouped	_
	Additional-Exception-Reports Rate-Control-Max-Message-Size	Enumerated Unsigned32	_
	Rate-Control-Max-Message-Size Rate-Control-Max-Rate	Unsigned32	+
	Rate-Control-Time-Unit	Unsigned32	-
	SCS-AS-Address	Grouped	+
	SCS-Address	Address	+
	SCS-Realm	DiameterIdentity	_
	The AVP codes from 3943 to 3999 are reserved for TS 32.299.	J.aotoaoy	
	Aggregated-Congestion-Info	Grouped	
	Aggregated-RUCI-Report	Grouped	
4002	Congestion-Level-Definition	Grouped	1
4003	Congestion-Level-Range	Unsigned32	
	Congestion-Level-Set-Id	Unsigned32	
	Congestion-Level-Value	Unsigned32	
	Congestion-Location-Id	Grouped	29.217
	Conditional-Restriction	Unsigned32	[35]
	eNodeB-Id	OctetString	
	IMSI-List	OctetString	
	RCAF-Id	DiameterIdentity	4
	Reporting-Restriction	Unsigned32	4
	RUCI-Action	Unsigned32	4
	Extended-eNodeB-ID The AVP codes from 4044 to 4000 are recogned for TS 20 347	OctetString	j
	The AVP codes from 4014 to 4099 are reserved for TS 29.217.	Crowned	20.452
	Network-Congestion-Area-Report	Grouped Unsigned32	29.153
	Ns-Request-Type The AVP codes from 4103 to 4199 are reserved for TS 29.153.	Unsigneu32	[37]
	Network-Area-Info-List	OctetString	
	Reference-Id	OctetString	
	Transfer-Request-Type	Unsigned32	1
	Time-Window	Grouped	1_
	Transfer-End-Time	Time	29.154
	Transfer-Start-Time	Time	[38]
	Transfer-Policy	Grouped	7
	Transfer-Policy-Id	Unsigned32	7
	Number-Of-UEs	Unsigned32	
	The AVP codes from 4210 to 4299 are reserved for TS 29.154.	<u> </u>	•
	Communication-Failure-Information	Grouped	29.128
	Cause-Type	Unsigned32	[36]

4000	CAAD Course	Linaien - doo	1
	S1AP-Cause	Unsigned32	-
	RANAP-Cause	Unsigned32	4
	GMM-Cause	Unsigned32	4
	SM-Cause	Unsigned32	4
	Number-of-UE-Per-Location-Configuration	Grouped	4
	Number-of-UE-Per-Location-Report	Grouped	4
	UE-Count	Unsigned32	4
	BSSGP-Cause	Unsigned32	4
	Serving-PLMN-Rate-Control	Grouped	4
	Uplink-Rate-Limit	Unsigned32	4
	Downlink-Rate-Limit	Unsigned32	4
	Extended-PCO	OctetString	_
	Connection-Action	Unsigned32	_
	Non-IP-Data	OctetString	_
	SCEF-Wait-Time	Time	4
	CMR-Flags	Unsigned32	4
	RRC-Cause-Counter	Grouped	
	Counter-Value	Unsigned32	_
	RRC-Counter-Timestamp	Time	
	The AVP codes from 4321 to 4399 are reserved for TS 29.128.		1
	Charging-Per-IP-CAN-Session-Indicator	Enumerated	
	Access-Network-Info-Change	Enumerated	4
	Discoveree-UE-HPLMN-Identifier	UTF8String	_
	Discoveree-UE-VPLMN-Identifier	UTF8String	_
	Discoverer-UE-HPLMN-Identifier	UTF8String	_
	Discoverer-UE-VPLMN-Identifier	UTF8String	_
	3GPP-PS-Data-Off-Status	Enumerated	32.299
	Unused-Quota-Timer	Unsigned32	[5]
	Announcing-PLMN-ID	UTF8String	
	ProSe-UE-to-Network-Relay-UE-ID	OctetString	
	ProSe-Target-Layer-2-ID	OctetString	
	Relay-IP-address	Address	
4412	Target-IP-Address	Address	
	FE-Identifier-List	UTF8String	
	The AVP codes from 4414 to 4499 are reserved for TS 32.299		
	MCPTT-ID	UTF8String	
	Data-Identification	Grouped	
	Data-Identification-Prefix	Unsigned32	
	Data-Identification-Flags	Unsigned64	
	DPR-Flags	Unsigned32	
	DPA-Flags	Unsigned32	
	DUR-Flags	Unsigned32	29.283
	DUA-Flags	Unsigned32	[39]
	NDR-Flags	Unsigned32	ردی
	NDA-Flags	Unsigned32	
	User-Data-Id	Unsigned32	
	MC-Service-User-Profile-Data	Grouped	
	Sequence-Number	Unsigned32	
	MCVideo-ID	UTF8String	
	MC-Data-ID	UTF8String	
	The AVP codes from 4515 to 4599 are reserved for TS 29.283.		
	V2X-PC5-Allowed-PLMN	Grouped	20.200
	V2X-Update-Flags	Unsigned32	29.388
	V2X-Notify-Flags	Unsigned32	[40]
	The AVP codes from 4603 to 4799 are reserved for TS 29.388.		
	V2X-Authorization-Data	Grouped	00.000
	V2X-Permission-in-VPLMN	Unsigned32	29.389
	V2X-Application-Server	Grouped	[41]
	The AVP codes from 4703 to 4799 are reserved for TS and TS 2		

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.

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

Table 8.1.2: 3GPP specific Success result codes

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								
	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.							
	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]						
	ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061.							
4141	DIAMETER_PCC_BEARER_EVENT							
4142	DIAMETER_BEARER_EVENT	29.212 [19]						
4143	DIAMETER_AN_GW_FAILED	29.212 [19]						
4144	DIAMETER_PENDING_TRANSACTION							
Note: The Experime	ntal Result Codes from 4145 to 4160 are reserved for the TS 29.212							
		32.299 [5]						
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.							
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	20 272 [24]						
4182	DIAMETER_ERROR_CAMEL_SUBSCRIPTION_PRESENT	29.272 [21]						
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.							
	DIAMETER_ERROR_ABSENT_USER	29.173 [25]						
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.							
4221	DIAMETER_ERROR_UNREACHABLE_USER							
4222	DIAMETER_ERROR_SUSPENDED_USER							
4223	DIAMETER_ERROR_DETACHED_USER	29.172 [24]						
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]						
4225	DIAMETER_ERROR_POSITIONING_FAILED							
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT							
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.							
4241								
Note: The Experime	ntal Result Codes from 4242 to 4260 are reserved for the TS 29.219.							
4261	REQUESTED_SERVICE_TEMPORARILY_NOT_AUTHORIZED	29.214 [18]						
Note: The Experime	ntal Result Codes from 4262 to 4280 are reserved for the TS 29.214.							

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5008	DIAMETER ERROR TOO MUCH DATA	
5009	DIAMETER ERROR NOT SUPPORTED USER DATA	
5010	unassigned	
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED	
5012	DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUPP ORTED	
Note: The Expe	rimental Result Codes from 5013 to 5020 are reserved for the TS	S 29.229. 32.299 [5]
Note: The Evne	I rimental Result Codes from 5021 to 5040 are reserved for the T	
5041	DIAMETER ERROR USER NO WLAN SUBSCRIPTION	J JL. L J J.
5042	DIAMETER_ERROR_USER_NO_WEAN_SUBSCRIPTION DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5042	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC	
	RIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	
	rimental Result Codes from 5046 to 5060 are reserved for the TS	S 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	29.209 [8],
5064	DUPLICATED_AF_SESSION	29.211 [17] ,
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.214 [18]
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	20.214[10]
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
5068	TEMPORARY_NETWORK_FAILURE	
	rimental Result Codes from 5069 to 5080 are reserved for TS 29 TS 29.214.	9.209, TS 29.211
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	20 220 [4]
5105	DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC	29.329 [4]
5106	DIAMETER ERROR SUBS DATA ABSENT	
5107	DIAMETER ERROR NO SUBSCRIPTION TO DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	rimental Result Codes from 5109 to 5119 are reserved for the T	S 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
	primental Result Codes from 5124 to 5139 are reserved for the TS	S 29.061.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	20.001.
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER PCC RULE EVENT	
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	
5145	D DIAMETER_QOS_RULE_EVENT	29.212 [19]
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
5148	DIAMETER_ADC_RULE_EVENT	
5149	DIAMETER_ERROR_NBIFOM_NOT_AUTHORIZED	
	rimental Result Codes from 5150 to 5159 are reserved for the T	S 20 212
5401	DIAMETER_ERROR_IMPI_UNKNOWN	J
		29.109 [7
5402	DIAMETER_ERROR_NOT_AUTHORIZED	=

_		T
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	2.00.400
	erimental Result Codes from 5404 to 5419 are reserved for the TS	S 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	00 070 [04]
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE erimental Result Codes from 5424 to 5449 are reserved for the T	C 20 272
5450	DIAMETER ERROR USER NO NON 3GPP SUBSCRIPTI	5 29.212.
3430	ON	
5451	DIAMETER ERROR USER NO APN SUBSCRIPTION	
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	29.273 [20]
5453	DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST	
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST	
	erimental Result Codes from 5455 to 5469 are reserved for the TS	S 29.273.
5470	DIAMETER_ERROR_SUBSESSION	
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME	29.215 [22]
	NT	
Note: The Expe	erimental Result Codes from 5472 to 5489 are reserved for the TS	S 29.215.
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET	29.173 [25]
	WORK	
	erimental Result Codes from 5491 to 5509 are reserved for the T	S 29.173.
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI	
	TY	
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
5512	DIAMETER_ERROR_REQUESTED_RANGE_IS_NOT	
5540	ALLOWED	29.336 [28]
5513	DIAMETER_ERROR_CONFIGURATION_EVENT_STORAGE	
5514	_NOT_SUCCESSFUL DIAMETER ERROR CONFIGURATION EVENT NON EXIS	
3314	TANT	
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	
	erimental Result Codes from 5516 to 5529 are reserved for the TS	S 29 336
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	J 20.000.
5531	DIAMETER ERROR SC CONGESTION	
5532	DIAMETER_ERROR_SM_PROTOCOL	00 007 1001
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	29.337 [29]
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5535	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING	
Note: The Expe	erimental Result Codes from 5536 to 5549 are reserved for the T	S 29.337.
5550	DIAMETER_ERROR_ABSENT_USER	
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5553	DIAMETER_ERROR_ILLEGAL_USER	
5554	DIAMETER_ERROR_ILLEGAL_EQUIPMENT	29.338 [30]
5555	DIAMETER_ERROR_SM_DELIVERY_FAILURE	
5556	DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED	
5557	DIAMETER_ERROR_SERVICE_BARRED	
5558	DIAMETER_ERROR_MWD_LIST_FULL	2.00.000
	erimental Result Codes from 5559 to 5569 are reserved for the TS	
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
5590	Experimental Result Codes from 5571 to 5589 are reserved for t	10 23.213.
5591	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	
5592	DIAMETER_ERROR_FID_UNKNOWN	
5593	DIAMETER_ERROR_APP_REGISTER_REJECT	
5594	DIAMETER ERROR PROSE MAP REQUEST DISALLOWE	
	D IN THE TEXT ENTROCE IN THE TRANSPORT OF THE TEXT ENTROPE IN THE TEXT ENTROPHE IN THE TEXT ENTROPE IN THE	
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	
5596	DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN	29.343 [32]
5597	DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_S	
	ET	
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 TS	S 29.343.
5610	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION	
5611	DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]
5612	DIAMETER_ERROR_UE_LOCATION_UNKNOWN	
Note: The Expe	erimental Result Codes from 5613 to 5629 are reserved for the TS	S 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	rimental Result Codes from 5642 to 5649 are reserved for the TS	S 29.345.
5650	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV	
	ED	
5651	DIAMETER_ERROR_INVALID_EPS_BEARER	
5652	DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAIL	29.128 [36]
	ABLE	
5653	DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL	
	E	
	rimental Result Codes from 5654 to 5669 are reserved for the TS	S 29.128.
5670	DIAMETER_ERROR_UNKNKOWN_DATA	29.283 [39]
5671	DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	
	rimental Result Codes from 5672 to 5689 are reserved for the TS	S 29.128.
5690	DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION	29.388 [40]
5691	DIAMETER_ERROR_V2X_NOT_ALLOWED	
Note: The Expe	erimental Result Codes from 5692 to 5709 are reserved for the TS	5 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

1					Change history		
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292			Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25	NP-040401	001		Correction of Charging application reference	6.0.0	6.1.0
2004-09	CN#25	NP-040401	002		Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401	003		Removal of User Data Request Type AVP	6.0.0	6.1.0
2004-09	CN#25	NP-040412	004	1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26		006		Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12	CN#26	NP-040580	007	1	Reservation of command code 310	6.1.0	6.2.0
2004-12	CN#26	NP-040579	009	1	Addition of Gmb interface	6.1.0	6.2.0
2004-12	CN#26	NP-040600	010	2	Documenting the Reuse of the 3GPP specific application identifier	6.1.0	6.2.0
					of Ro for Re on the Charging Interfaces		
2004-12	CN#26		011		Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26		012		Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047	040	1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
			043		Allocations for Gx interface	_	
		NP-050039			Allocations for Gmb interface	_	
			046		Allocations for MMS, MM10 Interface		
2005-06	CT#28		0050		Gx interface allocation correction	6.3.0	6.4.0
		CP-050196		1	Addition of Maximum-Number-Accesses AVP		
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.4.0	6.5.0
	1	CP-050310			Addition of Pr reference point to TS 29.230		
		CP-050310			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	6.5.0	7.0.0
2005-12	CT#30	CP-050624			Addition of GBA-Type AVP	7.0.0	7.1.0
	Ì	CP-050612			Additional Gmb AVP Allocation		
		CP-050612	0065		Reservation of AVP codes for 32.299		
	Ì	CP-050625			Management of Sh subscriptions		
2006-03	CT#31	CP-060073	0069		Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
	Ì	CP-060084			User-Data in the response to Sh-Subs-Notif		
	İ	CP-060084		1	New error indications for the Sh-Subs-Notif procedure		
2006-06	CT#32	CP-060302	0075		S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33			3	New AVP Code	7.3.0	7.4.0
	Î	CP-060417	0080		Errors to be sent in response to Sh-Notif		
	Î	CP-060417	0081		Definition of specific Diameter codes for DSAI		
2006-12	CT#34	CP-060566	0085	1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
		CP-060562	0086		Addition of Diameter Error Code for Emergency Purposes		
		CP-060555	0087		Allocation of new AVP codes for Gmb		
		CP-060555	0089		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	7.5.0	7.6.0
		CP-070020			Allocation of new AVP code for DSAI-Tag AVP		
		CP-070020	0093		Allocation of Experimental-Result-Code AVP for Gi Interface		
2007-06	CT#36	CP-070318	0096		Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312			Experimental-Result-Codes for Gmb interface		
		CP-070312	0100		Correction of Diameter AVP code allocation		
2007-09	CT#37	CP-070527	0102		Application ID for Gx protocol	7.7.0	7.8.0
2007-12	CT#38	CP-070743	0104		AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
			0105		Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol		
2007-12	CT#38	CP-070755	0101	4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
2007-12	01#30	01 070733	0103	_	AVP code reservation for 32.299 in Rel-8	7.5.0	0.0.0
2008-03	CT#39	CP-080015	0103		Correction of reference to TS 29.140	8.0.0	8.1.0
_000 00	0.,,00	CP-080019			AVP code reservation for TS 32.299 in Rel-8	5.0.0	0.1.0
	1	CP-080019			Wildcarded Public User Identities	1	1
		CP-080191	0112	1	Correction on AVP code allocation reservation for TS 32.299 in Rel-	1	
	}	OD 00000	0440		/ 10 constant on AVD and a 11 11 11 11 11 11 11 11 11 11 11 11 1	4	
i	OT" 12	CP-080204		1	Correction on AVP code allocation reservation for TS 32.299	0.4.5	0.0.0
0000 00	CT#40		0117	1	A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-06	OT# **		1/1/1/1/1	•	Emergency Public User Identity Removal	8.2.0	8.3.0
2008-09	CT#41	CP-080456		1		0.2.0	
2008-09 2008-09	CT#41	CP-080460	0121	1	Support of "Loose-Route" indication from HSS	0.2.0	
2008-09	t .			1		0.2.0	

2008-09	CT#41	CP-080463	0124		New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42		0127	2	Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691	0128	1	Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044	0130	1	Update for ReadyForSM	8.4.0	8.5.0
2009-03	CT#43	CP-090044	0131	1	Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090026	0132		Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033	0134	2	Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	AVP codes for S9 protocol	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0138	1	Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0140	1	Location of Permanent Failure result code range for the S9	8.4.0	8.5.0
					application		
2009-03	CT#43	CP-090024			AVPs for TS 29.273	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44		0129	4	Update of the AVP Codes	8.5.0	8.6.0
			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		
			0147		S6b Application ID		
2009-09	CT#45		0149		Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
			0152		AVP code allocation for TS 29.212		
			0150		Update of the AVP type for the User-Id		
			0153		Trace Depth per session		
2009-09	CT#45	CP-090557	0148		AVP code range for charging	8.7.0	9.0.0
2009-12	CT#46	CP-090800		1	ICS-Flag	9.0.0	9.1.0
		CP-091032	0156		From GMLC-Address to GMLC-Number		
			0160		Session-Priority AVP		
			0163	2	Introduction of SLh application related AVPs and Experimental		
			0466		Result codes	-	
		CD 000707	0166 0167	4	Missing AVP error codes Introduction of SLg application related AVPs and Application		
		CP-090797	0167	ı	Identifier		
2010-03	CT#47	CP-100031	0158	1	Wildcarded Public Identity	9.1.0	9.2.0
2010-03	01#47	CP-100031	0168	1	Correction on AVP code allocation reservation for TS 32.299 in Rel-	9.1.0	9.2.0
		C1 -100034	0100	'	9		
		CP-100046	0169	1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109	1	
		CP-100046			Error codes in 29.172 for SLg		
				1	AVPs in 29.272 for TADS support		
		CP-100040			Error codes in 29.272 for Unknown MME		
		CP-100236	0176	4	EPS Subcsriber State and Location Information Request		
		CP-100033	0180		One time notification AVP allocation		
		CP-100046			Addition of the LCS-QoS-Class attribute value		
		CP-100175			Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
2010-06	CT#48	CP-100263	0188	1	AVP Codes for PCC	9.2.0	9.3.0
			0183		EPS state and location retrieval		
		CP-100287			SGmb Application ID		
	0="10		0190	1	New APVs in S6a protocol		
2010-09	CT#49	CP-100463	0197	1	Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.0
		CD 100464	0406		interfaces AVD Codes Allegation for DCC	-	
2010.00	CT#40	CP-100464 CP-100465	0196	4	AVP Codes Allocation for PCC SIPTO Permission Indicator	9.4.0	10.00
2010-09	CT#49	CP-100465 CP-100466		1	Location data including only serving node address	9.4.0	10.0.0
		CP-100466			AVP for Update-Eff feature	+	
2010-12	CT#50	CP-100400		1	Enhanced SRVCC Subscriber Data	10.0.0	10.1.0
2010-12	01#30		0203	1	Allocate codes for AVPs on eMPS	10.0.0	10.1.0
		CP-100683		1	Allocate codes for AVPs on LIPA	1	
		CP-100688		1	Periodic TAU/RAU timer in HSS subscription		
		CP-100846		1	S6a Error Diagnostic	1	
2011-03	CT#51	CP-110051	0212		PDP-Address correction	10.1.0	10.2.0
		CP-110054			Essential correction on the value type of the ELP Application AVPs		
		CP-110087	0207	2	Minimization of Drive Tests (MDT)		
		CP-110088		1	Relay Node Indicator AVPs		
2011-06	CT#52	CP-110349	0219	2	Handling of RTR for Emergency Registration	10.2.0	10.3.0
		CP-110347	0231	1	Add AVPs from QSPEC cleanup		
		CP-110359	0226		MIPv4 security parameters on the STa and S6b interfaces		
		CP-110380			MDT user consent		
		CP-110370			AVP Code Allocation for Pre-paging		
				14	DUD FIGURA AVD	1	1
		CP-110375		1	PUR-Flags AVP		
2011-09	CT#53	CP-110375 CP-110559	0236	1	AVP code alignment with 29.212	10.3.0	10.4.0
2011-09	CT#53	CP-110375 CP-110559 CP-110555	0236 0239	1 1 1	AVP code alignment with 29.212 AVP code alignment with 32.299	10.3.0	10.4.0
2011-09	CT#53	CP-110375 CP-110559 CP-110555 CP-110554	0236 0239 0244	1 1 1	AVP code alignment with 29.212 AVP code alignment with 32.299 AVP code alignment with 29.214	10.3.0	10.4.0
2011-09	CT#53	CP-110375 CP-110559 CP-110555	0236 0239 0244 0249	1 1 1 1	AVP code alignment with 29.212 AVP code alignment with 32.299	10.3.0	10.4.0

2011-09		CP-110722	0257	2	Priviledged sender	7	
	CT#53	CP-110584			Add vSRVCC updates to the Diameter AVP code table	10.4.0	11.0.0
		CP-110579			AVP code alignment with 32.299		
		CP-110555	0253		AVP code reservation for 29.212	1	
2011-12	CT#54	CP-110812		1	SWx Restoration AVPs	11.0.0	11.1.0
		CP-110812			Sy and Sd Application IDs		
		CP-110775			New AVP codes for MBMS IP unicast encapsulation		
		CP-110775		<u> </u>	New AVP codes for MBMS IP multicast encapsulation		
			0271	1	MME-Realm AVP code allocation		
		CP-110811	0277	<u> </u>	Equivalent PLMN CSG Subscription Request		
0040.00	OT#55	CP-110781		1	Restoration of Wildcarded-IMPU AVP	11.10	44.0.0
2012-03	CT#55		0286	1	Codes Allocation for AVPs on Initial Attach New AVP codes for Absolute Time of MBMS Data Transfer over	11.1.0	11.2.0
		CP-120038	0288		SGmb		
		CP-120038	0201	1	Allocating Diameter AVP codes for TS 29.219 and TS 29.212	-	
2012-06	CT#56	CP-120038			Codes Allocation for AVPs on NPLI	11.2.0	11 3 0
2012 00	01//00	CP-120238	0294		Adding new Diameter AVPs to Diameter table to support Trusted	11.2.0	11.0.0
		020200	020 .		WLAN Access feature		
		CP-120225	0296	1	Trust Relationship Indication	1	
		CP-120251			Corrections to reference titles	1	
		CP-120251	0298	1	Diameter Code Allocation for TS 29.219	1	
		CP-120247	0300	-	Network Name AVP codes	1	
		CP-120219	0304	-	Duplicated AVP names	1	
2012-09	CT#57	CP-120481	0289		PS additional number allocation	11.3.0	11.4.0
		CP-120473			SMS in MME/SGSN		
		CP-120461		2	AAA Failure Recovery AVP codes		
		CP-120474		<u>-</u>	Transport Access Type AVP for BBAI		
		CP-120480		1	Local Time Zone		
		CP-120472	0308	-	Allocating Application Identifier and command code for Tsp		
		CD 400470	0309		interface Application Identifier, Command Codes and AVP range for S6m	-	
		CP-120472	0309	-	interface		
		CP-120667	0312	1	GMLC-Name	-	
		01 -120007	0313		Reference list correction to align with the corrected TS 29.212 title	-	
2012-12	CT#58	CP-120731	0315		T4 device triggering via IMS	11.4.0	11.5.0
	000	CP-120731	0318		Codes and Identifier Allocation for T4 Specification		
		CP-120731	0324	†	AVP Code Allocation for 29.336	1	
		CP-120731	0329	-	Diameter AVP code value allocation in TS 29.368	1	
		CP-120732	0319	2	Application Identifier, Command Codes and AVP codes for SGd,	1	
					S6c		
		CP-120716		1	AVP name modification in TS 32.299		
		CP-120742		-	UE Time Zone AVP		
		CP-120741		1	Use of Flag instead of Enumerated AVPs		
		CP-120741	332	-	Use of Flag instead of Enumerated AVPs		
		CP-120743		-	PSI direct routing with restoration procedures		
0040.00				-	EPS LocationInformation Support	-	
2013-03	OT#50	CP-120743		11		44.5.0	44.0.0
	CT#59	CP-130026		+	Diameter error code for TS 29.219	11.5.0	11.6.0
		CP-130026 CP-130026	0336	-	MDT parameters		
2013-03	CT#59	CP-130026 CP-130026 CP-130156	0336 0337	1	MDT parameters New AVPs for Lgd interface	11.5.0	
2013-03	CT#59	CP-130026 CP-130026 CP-130156 CP-130030	0336 0337 0341	-	MDT parameters New AVPs for Lgd interface Validity Time of Short Message	11.6.0	12.0.0
		CP-130026 CP-130026 CP-130156 CP-130030 CP-130288	0336 0337 0341 0362	-	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP	11.6.0	12.0.0
2013-03	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298	0336 0337 0341 0362 0360	-	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219	11.6.0	12.0.0
2013-03	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292	0336 0337 0341 0362 0360 0358	- 1 -	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs	11.6.0	12.0.0
2013-03	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279	0336 0337 0341 0362 0360 0358 0354	- 1 -	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring	11.6.0	12.0.0
2013-03	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292	0336 0337 0341 0362 0360 0358 0354 0363	- 1 - - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP	11.6.0	12.0.0
2013-03	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279 CP-130380	0336 0337 0341 0362 0360 0358 0354	- 1 - - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring	11.6.0	12.0.0
2013-03	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279 CP-130380	0336 0337 0341 0362 0360 0358 0354 0363 0348	- 1 - - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP	11.6.0	12.0.0
2013-03	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130299 CP-130292 CP-130297 CP-130291 CP-130297 CP-130374	0336 0337 0341 0362 0360 0358 0354 0363 0348	- 1 - - 1 - 2	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh	11.6.0	12.0.0
2013-03	CT#59	CP-130026 CP-130026 CP-130156 CP-130288 CP-130288 CP-130292 CP-130297 CP-130380 CP-130291 CP-130297	0336 0337 0341 0362 0360 0358 0354 0363 0348	- 1 - - 1 - 2	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures	11.6.0	12.0.0
2013-03 2013-06	CT#59 CT#60	CP-130026 CP-130026 CP-130156 CP-130288 CP-130298 CP-130292 CP-130292 CP-130291 CP-130291 CP-130297 CP-130374 CP-130378 CP-130378	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349	- 1 - - 1 - 2 1 1 - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements	11.6.0	12.0.0
2013-03	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291 CP-130297 CP-130374 CP-130374 CP-130378 CP-130378 CP-130378	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349	- 1 - - 1 - 2 1 1 - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration	11.6.0	12.0.0
2013-03 2013-06	CT#59 CT#60	CP-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291 CP-130297 CP-130374 CP-130374 CP-130378 CP-130454 CP-130461	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0364	- 1 - - 1 - 2 1 1 - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12	11.6.0	12.0.0
2013-06 2013-06 2013-09	CT#59 CT#60	CP-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291 CP-130297 CP-130374 CP-130374 CP-130378 CP-130378 CP-130378	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349	- 1 - - 1 - 2 1 1 - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215	11.6.0	12.0.0 12.1.0
2013-03 2013-06	CT#59 CT#60	CP-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291 CP-130297 CP-130374 CP-130374 CP-130378 CP-130454 CP-130461	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0364	- 1 - - 1 - 2 1 1 - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment-	11.6.0	12.0.0 12.1.0
2013-03 2013-06 2013-09 2013-09	CT#59 CT#60	CP-130026 CP-130026 CP-130156 CP-130298 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291 CP-130297 CP-130374 CP-130378 CP-130378 CP-130460 CP-130460	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0364 0366	- 1 - - 1 - 2 1 1 - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected	11.6.0 12.0.0 12.1.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-06 2013-06 2013-09	CT#59 CT#60	CP-130026 CP-130026 CP-130156 CP-130288 CP-130298 CP-130299 CP-130297 CP-130291 CP-130297 CP-130374 CP-130295 CP-130378 CP-130461 CP-130460 CP-130624	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0366 0368	- 1 - - 1 - 2 1 1 1 - 1 2 - - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN	11.6.0	12.0.0 12.1.0 12.2.0
2013-03 2013-06 2013-09 2013-09	CT#59 CT#60	CP-130026 CP-130026 CP-130156 CP-130288 CP-130288 CP-130292 CP-130297 CP-130291 CP-130297 CP-130374 CP-130295 CP-130374 CP-130461 CP-130460 CP-130624 CP-130631	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0366 0368 0368	- 1 - - 1 - 2 1 1 1 - 1 2 - - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion	11.6.0 12.0.0 12.1.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-03 2013-06 2013-09 2013-09	CT#59 CT#60	CP-130026 CP-130026 CP-130030 CP-130288 CP-130288 CP-130292 CP-130297 CP-130291 CP-130297 CP-130374 CP-130374 CP-130378 CP-130461 CP-130460 CP-130624 CP-130631 CP-130800	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0366 0368	- 1 - - 1 - 2 1 1 1 - 1 2 - - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338	11.6.0 12.0.0 12.1.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-03 2013-06 2013-09 2013-09	CT#59 CT#60	CP-130026 CP-130026 CP-130030 CP-130288 CP-130298 CP-130292 CP-130297 CP-130291 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130460 CP-130631 CP-130600 CP-130600	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0366 0368 0368	- 1 - - 1 - 2 1 1 1 - 1 2 - - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 32.299	11.6.0 12.0.0 12.1.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-06 2013-06 2013-09 2013-09	CT#59 CT#60	CP-130026 CP-130026 CP-130156 CP-130288 CP-130298 CP-130292 CP-130297 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130461 CP-130460 CP-130605	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0366 0368 0369 0370 0371 0376 0378	- 1 - - 1 - 2 1 1 1 - 1 2 - - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 32.299 Allocation of Diameter codes for 29.212	11.6.0 12.0.0 12.1.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-03 2013-06 2013-09 2013-09 2013-12	CT#59 CT#60 CT#61	CP-130026 CP-130026 CP-130030 CP-130298 CP-130292 CP-130297 CP-130390 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130461 CP-130460 CP-130600 CP-130605 CP-130603	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0364 0366 0368 0370 0371 0376 0378	- 1 1 - 2 1 1 1 1 2 1 1 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 32.299 Allocation of Diameter codes for 29.212 SGSN CAMEL Subscription Indication	11.6.0 12.0.0 12.1.0 12.2.0	12.0.0 12.1.0 12.2.0 12.2.1 12.3.0
2013-06 2013-06 2013-09 2013-09	CT#59 CT#60	CP-130026 CP-130026 CP-130156 CP-130288 CP-130298 CP-130292 CP-130297 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130461 CP-130460 CP-130605	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0364 0366 0368 0370 0371 0376 0378 0380	- 1 - - 1 - 2 1 1 1 - 1 2 - - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 32.299 Allocation of Diameter codes for 29.212	11.6.0 12.0.0 12.1.0 12.2.0	12.0.0 12.1.0 12.2.0 12.2.1 12.3.0

2014-06	CT#64	CP-140211	0385	1	Protocol enhancements to indicate support of device recall and	12.4.0	12.5.0
		CD 440054	0402	1	replace by SMS-SC	4	ļ
	1	CP-140251 CP-140257		1	AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition	-	
	ŀ	CP-140252		-	Definition of AVPs for Network Location in TWLAN		
		CP-140236	0399	-	TWAN-BSSID AVP re-naming		
		CP-140247		-	New AVPs for Trusted WLAN access		ļ
2014.00	CT#CE	CP-140231		1	Adding Codes for 29.214	10 5 0	12.6.0
2014-09	CT#65	CP-140515 CP-140517		1	T-GRUU restoration MB2-C codes	12.5.0	12.6.0
		CP-140505		1	New AVPs for Trusted WLAN access		
		CP-140506			P-CSCF Restoration indication		
		CP-140516		2	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 C4-141648.		
2014-12	CT#66	CP-140785	0409	1	New AVP for MBMS restoration	12.6.0	12.7.0
			0430	-	New Diagnostic-Info AVP for MBMS restoration	1	
			0410	1	WLCP key for WLCP signalling protection		
		ŀ	0411	-	Reset-ID		
	1	ŀ	0416	1	Code definitions for 32.299 Removal of I-WLAN AVPs	_	ļ
		ł	0428 0429	1	Reference correction	_	}
	Ì		0433	-	Code allocation for 29.212	_	ŀ
			0418	-	MDT PLMN List		
			0422		Codes Allocation for PC2 Protocol		
			0423		Codes Allocation for PC4a Protoco	_	ļ
			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	-	ŀ
			0.0.		Information Retrieval		
			0425	-	Corrections of the type of some AVPs		ĺ
		ļ	0426	_	OFR-Flags AVP code		
2015-03	CT#67	CP-150015	0427 0447	1	P-CSCF Restoration mechanism new error Renaming of Location-Type AVP	12.7.0	12.0.0
2013-03	C1#67	CF-130013	0447	1	Location reporting in emergency 1xSRVCC	12.7.0	12.6.0
		:	0435	<u>-</u>	AVP codes for GCSE MB2-C		
		j	0442	1	New AVPs and range of transient failure result codes in TS 29.214		j
			0438	1	Allocation of code for Authorized-Discovery-Range AVP (TS		
		·	0440	2	29.344) Location Update Trigger	_	ŀ
		ľ	0440		AVP codes allocation for Validity related AVPs for TS 29.345		
l.	ŀ		0443	ļ <u>.</u>	Allocation of codes for the Integrity Checks. Aspect AVPs		
2015-03	CT#67	CP-150039	0439	1	Diameter Application Identifier for Np protocol	12.8.0	13.0.0
2015-06	CT#68	CP-150257		1	AVP code allocation for Match Refresh Timer AVP in TS 29.345	13.0.0	13.1.0
		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	_	ŀ
	ŀ	CP-150203		-	IP-SM-GW-Realm	-	
2015-09	CT#69	CP-150454		-	Subscription data for extended buffering at the SGW	13.1.0	13.2.0
		CP-150442		-	Overlapping transaction over S6b		
		CP-150453			Addition of IMSI Group Id AVP definition		
		CP-150449		3	Addition of CP parameter AVP definition		
		CP-150431 CP-150456	0470	3	AVP codes for TS 29.212 AVP definiton for S6t	-	ŀ
2015-12	CT#70		0471	-	Addition of MBMS-Cell-List AVP	13.2.0	13.3.0
		CP-150778		-	S6t Application ID and Command Codes		
		I.	0474	1	Bitmask to inform the SCEF of the Monitoring capabilities		
		•	0490		AVP codes for MONTE T6a/b interface		
		CP-150778	0491	1	Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-		
		CP-150778	0494	2	Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a	-	ŀ
		01-130770	0454	_	subscriber (UE)		
		CP-150778	0501	1	Definition of AVP SCEF-ID]	
		CP-150778	0502		Service result per Event configuration		
		CP-150770		1	Emergency PDN connection over untrusted WLAN access	4	
		CP-150776	0476	-	EPC-MT-LR and PS-MT-LR procedure for UEs transiently not		
		CP-150776	0497	1	reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX	-	
		CP-150776	0497		Mobile Terminating SMS handling for extended Idle mode DRX –	1	!
			L	L	Additional Option		
		CP-150777			Commands and codes for Np protocol		ļ
		CP-150772		1	Definition of ProSe-Metadata-Index-Mask	4	
	1	CP-150772	0489	<u> -</u>	Addition of AVPs and result-codes		1

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		CP-150772		-	Addition of AVP used in match report procedure for eProSe-Ext-CT		
		CP-150754 CP-150773	0481	1	Allowed WAF and/or WWSF Identities Add the default access type to 3GPP specific AVP		
}		E .	0484	1	AVP code allocation for "UE Usage Type"		
		CP-150755		-	Metadata in Match-Report		
		CP-150755		-	New Group AVP for ProSe direct discovery procedures		
			0492	1	Definition of AVP for AESE-CT		
		CP-150771	0496	1	Command codes and AVP range for TS 29.154 and TS 29.153		
			0495	1	AVP codes for Indoor Positioning support in SLg/Lgd		
2016-03	CT#71	t e	0503	-	Application ID for St	13.3.0	13.4.0
		CP-160041	0506	1	Correction on TS numbers		
ļ			0510	-	AVPs for the Rx Diameter application		
ŀ			0514		AVP code reservation for 32.299 Codes for 29.212		
			0518 0505		New AVP assignment for MONTE		
}		CP-160029	0509	J -	Change of type of Monitoring-Duration AVP to represent an		
		01 100025	0000		absolute time		
		CP-160035	0507	-	Remove the default access AVP		
ĺ		CP-160035	0508	-	Specific AVP codes for NBIFOM		
		CP-160030	0511	-	Alert procedure from MME/SGSN to SMS-GMSC for MT SMS to		
ļ		ļ			UE using eDRX		
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		CP-160033			Definition of AVP Authorization of NIDD		
		CP-160033 CP-160036			New PDN-Type for Cellular IoT		
			0517		Monitoring update and Reporting of update result Allocation of new Diameter Application ID and commands code for		
		CF-100030	0319	3	PC2 protocol		
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History

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