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Foreword

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5

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]
10.77001	Management	25.250 [66]
16777355	3GPP V4	29.388 [40]
16777356	3GPP V6	29.389 [41]
		==::===[::1

5 Command codes

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

5.1 Command codes allocated for 3GPP

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

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

Command code value	Command name	Abbreviation	•	ecified in GPP TS			
300	User-Authorization-Request/-Answer	UAR/UAA					
301	Server-Assignment-Request/-Answer	SAR/SAA					
302	Location-Info-Request/-Answer	LIR/LIA	29.229 [2]	-			
303	Multimedia-Auth-Request/-Answer	MAR/MAA					
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	20	11) 022			
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	9.109 [7]			
	311 Message-Process-	Request/Answer		MPR/MP	PΑ	29.140 [16]	
	312 GBAPush-Info-Req	uest/Answer		GPR/GF	ગ	29.109 [7]	

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

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

8388671	ProSe-Match-Report-Info- Request/Answer	PIR/PIA	
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	
8388674	ProSe-Alert-Request/Answer	ALR/ALA	
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	
8388676	ProXimity-Action-Request/Answer	PXR/PXA	
8388727	ProXimity-Application-Request/Answer	XAR/XAA	29.343 [32]
8388720	Non-Aggregated-RUCI-Report- Request/Answer	NRR/NRA	
8388721	Aggregated-RUCI-Report- Request/Answer	ARR/ARA	29.217 [35]
8388722	Modify-Uecontext-Request/Answer	MUR/MUA	
8388724	Network-Status-Request/Answer	NSR/NSA	00.450.5071
8388725	Network-Status-Continuous-Report- Request/Answer	NCR/NCA	29.153 [37]
8388723	Background-Data-Transfer- Request/Answer	BTR/BTA	29.154 [38]
8388728	Data-Pull-Request/Answer	DPR/DPA	
8388729	Data-Update-Request/Answer	DUR/DUA	29.283 [39]
8388730	Notification-Data-Request/Answer	NDR/NDA	
8388732	Connection-Management- Request/Answer	CMR/CMA	
8388733	MO-Data-Request/Answer	ODR/ODA	29.128 [36]
8388734	MT-Data-Request/Answer	TDR/TDA	

6 Vendor identifier

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

6.1 3GPP's vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS			
100	3GPP-WLAN-APN-Id	OctetString				
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]			
102	3GPP-WLAN-QoS-Filter-Support	OctetString				
	Note: The AVP codes from 1 to 255 are reserved for backwards compatibility with 3GPP RADIUS Vendor Specific					
Attribu	utes (See TS 29.061 [13] and TS 29.234 [6])					
Note:	The AVP codes from 256 to 299 are reserved for future use.					
300	Authentication-Method	Enumerated				
	Authentication-Information-SIM	OctetString				
302	Authorization -Information-SIM	OctetString				
303	WLAN-User-Data	Grouped				
304	Charging-Data	Grouped				
305	WLAN-Access	Enumerated				
306	WLAN- 3GPP-IP-Access	Enumerated				
	APN-Authorized	Grouped				
308	APN-Id					
309	APN-Barring-Type	Enumerated	29.234 [6]			
310	WLAN-Direct-IP-Access	Enumerated	29.234 [0]			
311	Session-Request-Type	Enumerated				
312	Routing-Policy	IPFilterRule				
313	Max-Requested-Bandwidth	OctetString				
314	Charging-Characteristics	Integer				
315	Charging-Nodes	Grouped				
316	Primary-OCS-Charging-Function-Name	DiameterIdentity				
317	Secondary-OCS-Charging-Function-Name	DiameterIdentity				
	3GPP-AAA-Server-Name	DiameterIdentity				
319	Maximum-Number-Accesses	Unsigned32				
Note 1	1: The AVP codes from 320 to 399 are reserved for TS 29.234					
Note 2	2: The 3GPP-AAA-Server-Name definition is moved to TS 29.273 star	rting from Rel-12.				
400	GBA-UserSecSettings	OctetString				
	Transaction-Identifier	OctetString				
	NAF-Hostname	OctetString				
	GAA-Service-Identifier Key-ExpiryTime	OctetString Time				
404	ME-Key-Material	OctetString	-			
	UICC-Key-Material	OctetString				
	GBA_U-Awareness-Indicator	Enumerated				
	BootstrapInfoCreationTime	Time				
409	GUSS-Timestamp	Time				
	GBA-Type	Enumerated	29.109 [7]			
411	UE-Id UE-Id-Type	OctetString Enumerated				
412	UICC-App-Label	OctetString				
	UICC-ME	Enumerated				
	Requested-Key-Lifetime	Time				
	Private-Identity-Request	Enumerated				
	GBA-Push-Info	OctetString				
418	NAF-SA-Identifier	OctetString				
	Security-Feature-Request	OctetString				
	Security-Feature-Response The AVP codes from 421 to 499 are reserved for TS 29.109	OctetString	l			
	Abort-Cause	Enumerated				
	Access-Network-Charging-Address	Address				
	Access-Network-Charging-Address Access-Network-Charging-Identifier	Grouped				
	Access-Network-Charging-Identifier-Value	OctetString				
	AF-Application-Identifier	OctetString				
	AF-Application-identifier AF-Charging-Identifier	OctetString				
	Ar-Charging-Identifier Authorization-Token	OctetString				
	Flow-Description	IPFilterRule	29.209 [8],			
			29.211 [17] ,			
	Flow Number	Grouped	29.214 [18]			
	Flows	Unsigned32 Grouped				
	Flow Status	Grouped				
	Flow Llegge	Enumerated				
	Flow-Usage	Enumerated				
	Specific-Action May Begunsted Randwidth	Enumerated				
	Max-Requested-Bandwidth	Unsigned32				
515	Max-Requested-Bandwidth-DL	Unsigned32				

	Max-Requested-Bandwidth-UL	Unsigned32	
	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 Codec-Data	OctetString	
	Service-URN	OctetString	
	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	
	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	
	Min-Desired-Bandwidth-DL	Unsigned32	
	Min-Desired-Bandwidth-UL	Unsigned32	
	MCPTT-Identifier	OctetString	
	Service-Authorization-Info	Unsigned32	
	Media-Component-Status	Unsigned32	
	Priority-Sharing-Indicator	Enumerated	
	AF-Requested-Data	Unsigned32	
	Content-Version	Unsigned64	
	The AVP codes from 553 to 599 are reserved for TS 29.209, TS 29.2		
	Visited-Network-Identifier	OctetString	
	Public-Identity	UTF8String	
	Server-Name	UTF8String	
	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	
	SIP-Authentication-Context	OctetString	
	SIP-Auth-Data-Item	Grouped	00
	SIP-Item-Number	Unsigned32	29.229 [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	
	User-Authorization-Type	Enumerated	
	User-Data-Already-Available	Enumerated	
	Confidentiality-Key	OctetString	
626	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	
	SCSCF-Restoration-Info	Grouped	
	Path	OctetString	
	Contact	OctetString	
	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	
	Record-Route	OctetString	
	Associated-Registered-Identities	Grouped	
	Multiple-Registration-Indication	Enumerated	
	Restoration-Info	Grouped	
	Session-Priority	Enumerated	
	Identity-with-Emergency-Registration	Grouped	
	Priviledged-Sender-Indication	Enumerated	
053	LIA-Flags Initial-CSeq-Sequence-Number	Unsigned32	
		Unsigned32	
	SAR-Flags Allowed-WAF-WWSF-Identities	Unsigned32	
	WebRTC-Authentication-Function-Name	Grouped UTF8String	
	WebRTC-Authentication-Function-Name WebRTC-Web-Server-Function-Name	UTF8String	
	The AVP codes from 659 to 699 are reserved for TS 29.229.	UTF6String	
	User-Identity	Grouped	
	MSISDN	OctetString	
	User-Data	OctetString	
	Data-Reference	Enumerated	
	Service-Indication	OctetString	
	Subs-Req-Type	Enumerated	
	Requested-Domain	Enumerated	
	Current-Location	Enumerated	
	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	29.329 [4]
	One-Time-Notification	Enumerated	==:0=0[1]
	Requested-Nodes	Unsigned32	
	Serving-Node-Indication	Enumerated	
	Repository-Data-ID	Grouped	
	Sequence-Number	Unsigned32	
	Pre-paging-Supported	Enumerated	
	Local-Time-Zone-Indication	Enumerated	
	UDR-Flags	Unsigned32	
	Call-Reference-Info	Grouped	
	Call-Reference-Number	OctetString	
	AS-Number	OctetString	
Note:	The AVP codes from 723 to 799 are reserved for TS 29.329.		
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
823	Event-Type	Grouped	
	SIP-Method	UTF8String	
	Event	UTF8String	
826	Content-Type	UTF8String	32.299 [5]
827	Content-Length	Unsigned32	
	Content-Disposition	UTF8String	
	I	Cincilina a mate al	
829	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
	Originating-IOI	UTF8String
	Terminating-IOI	UTF8String
	IMS-Charging-Identifier	UTF8String
	SDP-Session-Description	UTF8String
	SDP-Media-Component	Grouped
	SDP-Media-Name	UTF8String
	SDP-Media-Description	UTF8String
	CG-Address	Address
	GGSN-Address	Address
848	Served-Party-IP-Address	Address
	Authorized-QoS	UTF8String
	Application-Server-Information	Grouped
	Trunk-Group-Id	Grouped
	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 Enumerated
	PS-Append-Free-Format-Data Time-Quota-Threshold	Unsigned32
	Volume-Quota-Threshold Trigger-Type	Unsigned32 Enumerated
	Quota-Holding-Time	Unsigned32
	Reporting-Reason	Enumerated
	Service-Information	Grouped
	PS-Information	Grouped
	Reserved	- Jioupeu
	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	-
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	Reserved	-	
	Reserved	-	
897	Address-Data	UTF8String	
	Address-Domain	Grouped	
899	Address-Type	Enumerated	
900	TMGI	OctectString	
901	Required-MBMS-Bearer-Capabilities	UTF8String	
	MBMS-StartStop-Indication	Enumerated	
	MBMS-Service-Area	OctectString	
	MBMS-Session-Duration	Unsigned32	
	Alternative-APN	UTF8String	
	MBMS-Service-Type	Enumerated	
	MBMS-2G-3G-Indicator	Enumerated	
	MBMS-Session-Identity	OctetString	
909		UTF8String	
	Additional-MBMS-Trace-Info	OctetString	
	MBMS-Time-To-Data-Transfer	Unsigned32	
		Ŭ	
	MBMS-Session-Identity-Repetition-Number	Unsigned32	
	MBMS-Required-QoS	UTF8String	
	MBMS-Counting-Information	Enumerated	
	MBMS-User-Data-Mode-Indication	Enumerated	
	MBMS-GGSN-Address	UTF8String	00 004 5:53
	MBMS-GGSN-IPv6-Address	UTF8String	29.061 [13]
	MBMS-BMSC-SSM-IP-Address	UTF8String	
	MBMS-BMSC-SSM-IPv6-Address	UTF8String	
	MBMS-Flow-Identifier	OctetString	
	CN-IP-Multicast-Distribution	Enumerated	
	MBMS-HC-Indicator	Enumerated	
	MBMS-Access-Indicator	Enumerated	
	MBMS-GW-SSM-IP-Address	OctetString	
	MBMS-GW-SSM-IPv6-Address	OctetString	
	MBMS-BMSC-SSM-UDP-Port	OctetString	
	MBMS-GW-UDP-Port	OctetString	
	MBMS-GW-UDP-Port-Indicator	Enumerated	
	MBMS-Data-Transfer-Start	Unsigned64	
	MBMS-Data-Transfer-Stop	Unsigned64	
	MBMS-Flags	Unsigned32	
932	Restart-Counter	Unsigned32	
	Diagnostic-Info	Unsigned32	
	MBMS-Cell-List	OctetString	
Note:	The AVP codes from 935 to 999 are reserved for TS 29.061		
1000	Bearer-Usage	Enumerated	
	Charging-Rule-Install	Grouped	
	Charging-Rule-Remove	Grouped	
	Charging-Rule-Definition	Grouped	
1004	Charging-Rule-Base-Name	UTF8String	
	Charging-Rule-Name	OctetString	
	Event-Trigger	Enumerated	
	Metering-Method	Enumerated	
	Offline	Enumerated	
	Online	Enumerated	
	Precedence	Unsigned32	
	Reporting-Level	Enumerated	29.212 [19]
	TFT-Filter	IPFilterRule	r -1
	TFT-Packet-Filter-Information	Grouped	
	ToS-Traffic-Class	OctetString	
	QoS-Information	Grouped	
	Charging-Rule-Report	Grouped	
	PCC-Rule-Status	Enumerated	
	Bearer-Identifier	OctetString	
	Bearer-Operation	Enumerated	
	Access-Network-Charging-Identifier-Gx	Grouped	
	Bearer-Control-Mode	Enumerated	
	Network-Request-Support	Enumerated	
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1025 Guaranteed-Bitrate-DL	Unsigned32
1026 Guaranteed-Bitrate-UL	Unsigned32
1027 IP-CAN-Type	Enumerated
1028 QoS-Class-Identifier	Enumerated
1029 QoS-Negotiation	Enumerated
1030 QoS-Upgrade	Enumerated
1031 Rule-Failure-Code	Enumerated
1032 RAT-Type	Enumerated
1033 Event-Report-Indication	Grouped
1034 Allocation-Retention-Priority	Grouped
1035 CoA-IP-Address	Address
1036 Tunnel-Header-Filter	IPFilterRule
1037 Tunnel-Header-Length	Unsigned32
1038 Tunnel-Information	Grouped
1039 CoA-Information	Grouped
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32
1041 APN-Aggregate-Max-Bitrate-UL	Unsigned32
1042 Revalidation-Time	Time
1043 Rule-Activation-Time	Time
1044 Rule-DeActivation-Time	Time
1045 Session-Release-Cause	Enumerated
1046 Priority-Level	Unsigned32
1047 Pre-emption-Capability	Enumerated
1048 Pre-emption-Vulnerability	Enumerated
1049 Default-EPS-Bearer-QoS	Grouped
1050 AN-GW-Address	Address
1051 QoS-Rule-Install	Grouped
1052 QoS-Rule-Remove	Grouped
1053 QoS-Rule-Definition	Grouped
1054 QoS-Rule-Name	OctetString
1055 QoS-Rule-Report	Grouped
1056 Security-Parameter-Index	OctetString
1057 Flow-Label	OctetString
1058 Flow-Information	Grouped
1059 Packet-Filter-Content	IPFilterRule
1060 Packet-Filter-Identifier	OctetString
1061 Packet-Filter-Information	Grouped
1062 Packet-Filter-Operation	Enumerated
1063 Resource-Allocation-Notification	Enumerated
1064 Session-Linking-Indicator 1065 PDN-Connection-ID	Enumerated
1066 Monitoring-Key	OctetString OctetString
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1067 Usage-Monitoring-Information	Grouped
1068 Usage-Monitoring-Level	Enumerated
1069 Usage-Monitoring-Report	Enumerated
1070 Usage-Monitoring-Support	Enumerated
1071 CSG-Information-Reporting	Enumerated
1072 Packet-Filter-Usage	Enumerated
1073 Charging-Correlation-Indicator	Enumerated
1074 QoS-Rule-Base-Name	UTF8String
1075 Routing-Rule-Remove	Grouped
1076 Routing-Rule-Definition	Grouped
1077 Routing-Rule-Identifier	OctetString
1078 Routing-Filter	Grouped
1079 Routing-IP-Address	Address
1080 Flow-Direction	Enumerated
1081 Routing-Rule-Install	Grouped
1082 Credit-Management-Status	Unsigned32
1085 Redirect-Information	Grouped
1086 Redirect- Support	Enumerated
1087 TDF-Information	Grouped
1088 TDF-Application-Identifier	OctetString
1089 TDF-Destination-Host	DiameterIdentity
1090 TDF-Destination-Realm	DiameterIdentity
1091 TDF-IP-address	Address
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1092 ADC-Rule-Install	Grouped	
1093 ADC-Rule-Rinstall	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	Endinorated	
1100 Served-User-Identity	Groupe	
1101 VASP-ID	UTF8Str	
1102 VAS-ID	UTF8String	
1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address	Grouped	
1106 Result-Recipient-Address	Grouped	
1107 Sequence-Number	Unsigned32	
1108 Recipient-Address	UTF8String	
1109 Routeing-Address	UTF8String	29.140 [16]
1110 Originating-Interface	Enumerated	
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		T
1200 Domain-Name	UTF8String	
1201 Recipient-Address	Grouped	
1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size 1207 Additional-Content-Information	Unsigned32	
1207 Additional-Content-Information 1208 Addressee-Type	Grouped	
1206 Addressee-Type 1209 Priority	Enumerated Enumerated	
1210 Message-ID	UTF8String	
1211 Message-Type	Enumerated	
1212 Message-Size	Unsigned32	
1213 Message-Class	Grouped	
1214 Class-Identifier	Enumerated	
1215 Token-Text	UTF8String	
1216 Delivery-Report-Requested	Enumerated	
1217 Adaptations	Enumerated	00
1218 Applic-ID	UTF8String	32.299 [5]
1219 Aux-Applic-Info	UTF8String	1
1220 Content-Class	Enumerated	1
1221 DRM-Content	Enumerated	1
1222 Read-Reply-Report-Requested	Enumerated	
1223 Reply-Applic-ID	UTF8String	
1224 File-Repair-Supported	Enumerated	
1225 MBMS-User-Service-Type	Enumerated	
1226 Unit-Quota-Threshold	Unsigned32	
1227 PDP-Address	Address	
1228 SGSN-Address	Address	
1229 PoC-Session-Id	UTF8String	
1230 Deferred-Location-Even-Type	UTF8String	
1231 LCS-APN	UTF8String	
1232 LCS-Client-Id	Grouped	
1233 LCS-Client-Dialed-By-MS	UTF8String	
1234 LCS-Client-External-ID	UTF8String	
1235 LCS-Client-Name	Grouped	

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1236 LCS-Data-Coding-Scheme	UTF8String	
1237 LCS-Format-Indicator	Enumerated	
1238 LCS-Name-String	UTF8String	
1239 LCS-Requestor-Id	Grouped	
1240 LCS-Requestor-Id-String	UTF8String	
1241 LCS-Client-Type	Enumerated	
1242 Location-Estimate	OctetString	
1243 Location-Estimate-Type	Enumerated	
1244 Location-Type	Grouped	
1245 Positioning-Data	UTF8String	
1246 Reserved	- CTI OCUM	
1247 PDP-Context-Type	Frumaratad	
	Enumerated	
1248 MMBox-Storage-Requested	Enumerated	
1249 Service-Specific-Info	Grouped	
1250 Called-Asserted-Identity	UTF8String	
1251 Requested-Party-Address	UTF8String	
1252 PoC-User-Role	Grouped	
1253 PoC-User-Role-IDs	UTF8String	
1254 PoC-User-Role-info-Units	Enumerated	
1255 Talk-Burst-Exchange	Grouped	
1256 Service-Generic-Information	Grouped	
1257 Service-Specific-Type	Unsigned32	
1258 Event-Charging-TimeStamp	Time	
1259 Participant-Access-Priority	Enumerated	
1260 Participant-Group	Grouped	
1261 PoC-Change-Conditions	Enumerated	
1262 PoC-Change-Time	Time	
1263 Access-Network-Information	OctetString	
1264 Trigger	Grouped	
1265 Base-Time-Interval	Unsigned32	
1266 Envelope	Grouped	
1267 Envelope-End-Time	Time	
1268 Envelope-Reporting	Enumerated	
1269 Envelope-Start-Time	Time	
1270 Time-Quota-Mechanism	Grouped	
1271 Time-Quota-Type	Enumerated	
1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps	Grouped	
1274 SDP-Offer-Timestamp	Time	
1275 SDP-Answer-Timestamp	Time	
1276 AF-Correlation-Information	Grouped	
1277 PoC-Session-Initiation-type	Enumerated	
1278 Offline-Charging	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
	OTFOSHING	
Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299		
1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	
1403 Software-Version	UTF8String	
1404 QoS-Subscribed	UTF8String	
1405 ULR-Flags	Unsigned32	29.272 [21]
1406 ULA-Flags	Unsigned32	
1407 Visited PLMN Id	OctetString	
1408 Requested-EUTRAN-Authentication-Info	Grouped	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped	
1410 Number-Of-Requested-Vectors	Unsigned32	

1411 Re-Synchronization-Info	OctetString	
1412 Immediate-Response-Preferred	Unsigned32	
1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	
1417 Network-Access-Mode	Enumerated	
1418 HPLMN-ODB	Enumerated	
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
1426 Access-Restriction-Data	UTF8String	
1427 APN-OI-Replacement	UTF8String	
1428 All-APN-Configurations-Included-Indicator	Enumerated	
1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile	Grouped	
1431 PLF3-Subscribed-Q03-F10file	Enumerated	
1433 STN-SR	OctetString	
1433 STN-SR 1434 Alert-Reason	Enumerated	
1435 AMBR	Grouped	
1435 AMBR 1436 CSG-Subscription-Data	Grouped	
1437 CSG-Id		
	Unsigned32	
1438 PDN-GW-Allocation-Type	Enumerated	
1439 Expiration-Date	Time	
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32	
1441 IDA-Flags	Unsigned32	
1442 PUA-Flags	Unsigned32	
1443 NOR-Flags	Unsigned32	
1444 User-Id	UTF8String	
1445 Equipment-Status	Enumerated	
1446 Regional-Subscription-Zone-Code	OctetString	
1447 RAND	OctetString	
1448 XRES	OctetString	
1449 AUTN	OctetString	
1450 KASME	OctetString	
1451 Reserved	-	
1452 Trace-Collection-Entity	Address	
1453 Kc	OctetString	
1454 SRES	OctetString	
1455 Reserved	-	
1456 PDN-Type	Enumerated	
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated	
1458 Trace-Data	Grouped	
1459 Trace-Reference	OctetString	
1460 Reserved	-	
1461 Reserved	-	
1462 Trace-Depth	Enumerated	
1463 Trace-NE-Type-List	OctetString	
1464 Trace-Interface-List	OctetString	
1465 Trace-Event-List	OctetString	
	OctetString	
11466 IUMC-10		
1466 OMC-Id 1467 GPRS-Subscription-Data	Grouped	
1467 GPRS-Subscription-Data	Grouped Enumerated	
1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator	Enumerated	
1467 GPRS-Subscription-Data1468 Complete-Data-List-Included-Indicator1469 PDP-Context	Enumerated Grouped	
1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type	Enumerated Grouped OctetString	
1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID	Enumerated Grouped OctetString OctetString	
1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info	Enumerated Grouped OctetString OctetString Grouped	
1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info	Enumerated Grouped OctetString OctetString Grouped Grouped	
1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info	Enumerated Grouped OctetString OctetString Grouped	

1476 SS-Code
1478 Notification-To-UE-User
1479 External-Client Grouped
1480 GMLC-Restriction
1481 GMLC-Restriction
1482 PLMN-Client
1483 Service-Type Grouped
1486 Telsesrvice-List Grouped
1496 Teleservice-List Grouped Enumerated 1487 TS-Code Enumerated 1488 Call-Barring-Info Grouped Grouped 1489 Call-Barring-Info Grouped Grouped 1489 Call-Barring-Info Grouped Grou
1486 Teleservice-List Grouped Enumerated 1487 TS-Code Enumerated 1488 Call-Barring-Info Grouped Grouped 1489 Call-Barring-Info Grouped 1489 Call-Barring-Info Grouped 1489 GSN-Number OctoString 1490 IDR-Flags Unsigned32 1491 ICS-Indicator Enumerated 1492 IMS-Voice-Over-PS-Sessions-Supported Enumerated 1492 IMS-Voice-Over-PS-Sessions-Supported Enumerated 1492 IMS-Voice-Over-PS-Sessions Enumerated 1492 IMS-Voice-Over-PS-Sessions Enumerated 1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions Enumerated 1494 Last-Lie-Activity-Time Time Time 1495 EPS-User-State Grouped 1498 EPS-Location-Information Grouped 1498 GSN-User-State Grouped 1498 GSN-User-State Grouped 1498 GSN-User-State Grouped 1498 GSN-User-State Enumerated 1500 Non-3GPP-IP-Access Enumerated 1501 Non-3GPP-IP-Access Enumerated 1502 Non-3GPP-IP-Access Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF8String 1505 Trace-Info Grouped 1505 Trace-Info Grouped 1505 Trace-Info Grouped 1506 MIP-FA-RK OctoString 1506 MIP-FA-RK OctoString 1507 MIP-FA-RK-SPI Unsigned32 1508 PPR-Flags Unsigned32 1513 Reserved Content
1487 TS-Code
1488 Call-Barring-Info
1499 IOR-Flags
1490 IDR-Flags
1491 ICS-Indicator
Hast-Voice-Over-PS-Sessions-Supported
Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions
1494 Last-UE-Activity-Time
1496 EPS-Loser/State Grouped 1496 EPS-Location-Information Grouped 1497 MME-User-State Grouped 1498 SGSN-User-State Grouped 1499 User-State Enumerated 1500 Non-3GPP-User-Data Grouped 1501 Non-3GPP-IP-Access Enumerated 1502 Non-3GPP-IP-Access Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTFBString 1505 Trace-Info Grouped 1506 MIP-FA-RK OctetString 1506 MIP-FA-RK-SPI Unsigned32 1508 PPR-Flags Unsigned32 1509 PLAN-Identifier Grouped 1510 TWAN-Desault-APN-Context-Id Unsigned32 1511 Access-Authorization-Flags Unsigned32 1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved -
1496 EPS-Location-Information Grouped 1497 MME-User-State Grouped 1498 GSN-User-State Enumerated 1500 Non-3GPP-User-Data Grouped 1501 Non-3GPP-User-Data Grouped 1501 Non-3GPP-User-Data Enumerated 1502 Non-3GPP-IP-Access 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 Full-Network-Name OctetString 1517 Short-Network-Name OctetString 1519 Transport-Access-Type Enumerated 1519 Tansport-Access-Type Enumerated 1520 DER-Flags Unsigned32 1521 DEA-Flags Unsigned32 1522 RAR-Flags Unsigned32 1523 DER-S6b-Flags Unsigned32 1524 SSID Unsigned32 1525 HESSID Unsigned32 1526 HESSID Unsigned32 1527 TWAN-Connectivity-Parameters Grouped 1528 TWAN-Connectivity-Parameters Grouped 1529 TWAN-Connectivity-Parameters Grouped 1520 TWAN-Connectivity-Parameters Grouped 1521 TWAN-Connectivity-Parameters Grouped 1522 TWAN-Connectivity-Parameters Grouped 1523 TWAN-Con-Address Unsigned32 1523 TWAN-Con-Address Unsigned32 1523 TWAN-S2a-Failure-Cause Unsigned32 1524 SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
1497 MME-User-State Grouped 1498 SGSN-User-State Grouped 1498 User-State Grouped 1499 User-State Enumerated 1500 Non-3GPP-User-Data Grouped 1501 Non-3GPP-User-Data Enumerated 1502 Non-3GPP-IP-Access Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF8String 1505 Trace-Info Grouped 1506 MIP-FA-RK OctetString 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 1513 Reserved -
1498 GSSN-User-State
1499 User-State
1500 Non-3GPP-User-Data Grouped 1501 Non-3GPP-IP-Access Enumerated 1502 Non-3GPP-IP-Access Enumerated 1503 AN-Trusted Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF8String 1505 Trace-Info Grouped 1506 MIP-FA-RK OctetString 1507 MIP-FA-RK Outststring Unsigned32 1509 MLAN-Identifier Grouped 1509 WLAN-Identifier Grouped 1510 TWAN-Access-Info Grouped 1511 Access-Authorization-Flags Unsigned32 1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved -
1501 Non-3GPP-IP-Access
1501 Non-3GPP-IP-Access
1502 Non-3GPP-IP-Access-APN
1503 AN-Trusted
1504 ANID
1505 Trace-Info
1506 MIP-FA-RK
1506 MIP-FA-RK
1507 MIP-FA-RK-SPI
1508 PRF-Flags
1509 WLAN-Identifier Grouped 1510 TWAN-Access-Info Grouped 1511 Access-Authorization-Flags Unsigned32 1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved -
1510 TWAN-Access-Info Grouped 1511 Access-Authorization-Flags Unsigned32 1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved - 1514 Reserved - 1515 Reserved - 1516 Full-Network-Name 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 1531 TWAG-CP-Address UTF8String 1533
1511 Access-Authorization-Flags Unsigned32 1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved - 1514 Reserved - 1515 Reserved - 1516 Full-Network-Name OctetString 1517 Short-Network-Name OctetString 1518 AAA-Failure-Indication Unsigned32 1519 Transport-Access-Type Enumerated 1520 DER-Flags Unsigned32 1521 DEA-Flags Unsigned32 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 1531 TWAG-CP-Address Address 1533 <td< td=""></td<>
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1513 Reserved - 1514 Reserved - 1515 Reserved - 1516 Full-Network-Name OctetString 1517 Short-Network-Name OctetString 1518 AAA-Failure-Indication Unsigned32 1519 Transport-Access-Type Enumerated 1520 DER-Flags Unsigned32 1521 DEA-Flags Unsigned32 1522 RAR-Flaigs 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 OctetString 1531 TWAG-CP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32
1514 Reserved - 1515 Reserved - 1516 Full-Network-Name OctetString 1517 Short-Network-Name OctetString 1518 AAA-Failure-Indication Unsigned32 1519 Transport-Access-Type Enumerated 1520 DER-Flags Unsigned32 1521 DEA-Flags Unsigned32 1522 RAR-Flags Unsigned32 1523 DER-S6b-Flags Unsigned32 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connectivity-Parameters Grouped 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32
1515 Reserved - 1516 Full-Network-Name OctetString 1517 Short-Network-Name OctetString 1518 AAA-Failure-Indication Unsigned32 1519 Transport-Access-Type Enumerated 1520 DER-Flags Unsigned32 1521 DEA-Flags Unsigned32 1522 RAR-Flags Unsigned32 1523 DER-S6b-Flags Unsigned32 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32
1516 Full-Network-NameOctetString1517 Short-Network-NameOctetString1518 AAA-Failure-IndicationUnsigned321519 Transport-Access-TypeEnumerated1520 DER-FlagsUnsigned321521 DEA-FlagsUnsigned321522 RAR-FlagsUnsigned321523 DER-S6b-FlagsUnsigned321524 SSIDUTF8String1525 HESSIDUTF8String1526 Access-Network-InfoGrouped1527 TWAN-Connection-ModeUnsigned321528 TWAN-Connectivity-ParametersGrouped1529 Connectivity-FlagsUnsigned321530 TWAN-PCOOctetString1531 TWAG-CP-AddressAddress1532 TWAG-UP-AddressUTF8String1533 TWAN-S2a-Failure-CauseUnsigned32
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 OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32
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 OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause 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 OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32
1520 DER-Flags
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 OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause 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 OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause 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 OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause 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 OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32
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1526Access-Network-InfoGrouped1527TWAN-Connection-ModeUnsigned321528TWAN-Connectivity-ParametersGrouped1529Connectivity-FlagsUnsigned321530TWAN-PCOOctetString1531TWAG-CP-AddressAddress1532TWAG-UP-AddressUTF8String1533TWAN-S2a-Failure-CauseUnsigned32
1527TWAN-Connection-ModeUnsigned321528TWAN-Connectivity-ParametersGrouped1529Connectivity-FlagsUnsigned321530TWAN-PCOOctetString1531TWAG-CP-AddressAddress1532TWAG-UP-AddressUTF8String1533TWAN-S2a-Failure-CauseUnsigned32
1528TWAN-Connectivity-ParametersGrouped1529Connectivity-FlagsUnsigned321530TWAN-PCOOctetString1531TWAG-CP-AddressAddress1532TWAG-UP-AddressUTF8String1533TWAN-S2a-Failure-CauseUnsigned32
1528TWAN-Connectivity-ParametersGrouped1529Connectivity-FlagsUnsigned321530TWAN-PCOOctetString1531TWAG-CP-AddressAddress1532TWAG-UP-AddressUTF8String1533TWAN-S2a-Failure-CauseUnsigned32
1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32
1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32
1531 TWAG-CP-AddressAddress1532 TWAG-UP-AddressUTF8String1533 TWAN-S2a-Failure-CauseUnsigned32
1532 TWAG-UP-AddressUTF8String1533 TWAN-S2a-Failure-CauseUnsigned32
1533 TWAN-S2a-Failure-Cause Unsigned32
1534 SM-Back-Off-Timer Unsigned32
1535 WLCP-Key OctetString
318 3GPP-AAA-Server-Name DiameterIdentity
1536Origination-Time-StampUnsigned641537Maximum-Wait-TimeUnsigned32
TO 27 INVASTRUMENVAILE LIMB
1537 Maximum-Wait-TimeUnsigned321538 Emergency-ServicesUnsigned32

[4500]AAD EI	11 . 100	
1539 AAR-Flags	Unsigned32	
1540 IMEI-Check-In-VPLMN-Result	Unsigned32	
1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273	Unsigned32	
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP	TS 20 224 and is now def	inad in 2CDD TC
29.273 from Rel-12.	13 29.234 and is now der	illed iii 3GFF 13
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	
1612 Active-APN	Grouped	
1613 SIPTO-Permission	Enumerated	
1614 Error-Diagnostic	Enumerated	
1615 UE-SRVCC-Capability	Enumerated	
1616 MPS-Priority	Unsigned32	
1617 VPLMN-LIPA-Allowed	Enumerated	
1618 LIPA-Permission	Enumerated	
1619 Subscribed-Periodic-RAU-TAU-Timer	Unsigned32	
1620 Ext-PDP-Type	OctetString	
1621 Ext-PDP-Address	Address	
1622 MDT-Configuration	Grouped	
1623 Job-Type	Enumerated	
1624 Area-Scope	Grouped	
1625 List-Of-Measurements	Unsigned32	
1626 Reporting-Trigger	Unsigned32	
1627 Report-Interval	Enumerated	
1628 Report-Amount	Enumerated	
1629 Event-ThresholdRSRP	Unsigned32	29.272 [21]
1630 Event-ThresholdRSRQ	Unsigned32	
1631 Logging-Interval	Enumerated	
1632 Logging-Duration	Enumerated	
1633 Relay-Node-Indicator	Enumerated	
1634 MDT-User-Consent	Enumerated	
1635 PUR-Flags	Unsigned32	
1636 Subscribed-VSRVCC	Enumerated	
1637 Equivalent-PLMN-List	Grouped	
1638 CLR-Flags	Unsigned32	
1639 UVR-Flags	Unsigned32	
1640 UVA-Flags	Unsigned32	
1641 VPLMN-CSG-Subscription-Data	Grouped	
1642 Time-Zone	UTF8String	
1643 A-MSISDN	OctetString	
1644 Reserved		
1645 MME-Number-for-MT-SMS	OctetString	
1646 Reserved	-	
1647 Reserved	- - -	
1648 SMS-Register-Request	Enumerated	
1649 Local-Time-Zone	Grouped	
1650 Daylight-Saving-Time	Enumerated	
1651 GMLC-Info	Grouped	
1652 GMLC-Name	DiameterIdentity DiameterIdentity	
1654 Subscription Data Flore	DiameterIdentity	
1654 Subscription-Data-Flags 1655 Measurement-Period-LTE	Unsigned32	
	Enumerated	
1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE	Enumerated	
	Enumerated Enumerated	
1658 Collection-Period-RRM-UMTS	Enumerated	

4050 Desitioning Mathed	0-4-404	
1659 Positioning-Method	OctetString	
1660 Measurement-Quantity	OctetString	
1661 Event-Threshold-Event-1F	Integer32	
1662 Event-Threshold-Event-1I	Integer32	
1663 Restoration-Priority	Unsigned32	
1664 SGs-MME-Identity	UTF8String	
1665 SIPTO-Local-Network-Permission	Unsigned32	
1666 Coupled-Node-Diameter-ID	DiameterIdentity	
1667 WLAN-offloadability	Grouped	
1668 WLAN-offloadability-EUTRAN	Unsigned32	
1669 WLAN-offloadability-UTRAN	Unsigned32	
1670 Reset-ID	OctetString	
1671 MDT-Allowed-PLMN-Id	OctetString	
1672 Adjacent-PLMNs	Grouped	
1673 Adjacent-Access-Restriction-Data	Grouped	
1674 DL-Buffering-Suggested-Packet-Count	Integer32	
1675 IMSI-Group-Id	Grouped	
1676 Group-Service-Id	Unsigned32	
1677 Group-PLMN-Id	OctetString	
1678 Local-Group-Id	OctetString	
1679 AIR-Flags	Unsigned32	
1680 UE-Usage-Type	Unsigned32	
1681 Non-IP-PDN-Type-Indicator	Enumerated	
1682 Non-IP-Data-Delivery-Mechanism	Unsigned32	
1683 Additional-Context-Identifier	Unsigned32	
1684 SCEF-Realm	DiameterIdentity	
1685 Subscription-Data-Deletion	Grouped	
1686 Preferred-Data-Mode	Unsigned32	
1687 Emergency-Info	Grouped	
1688 V2X-Subscription-Data	Grouped	
1689 V2X-Permission	Unsigned32	
1690 PDN-Connection-Continuity	Unsigned32	
1691 eDRX-Cycle-Length	Grouped	
1692 eDRX-Cycle-Length-Value	OctetString	
1693 UE-PC5-AMBR	Unsigned32	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272.	Unsigned32	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information	Unsigned32 Grouped	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme	Unsigned32 Grouped Integer32	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface	Unsigned32 Grouped Integer32 Grouped	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme	Grouped Integer32 Grouped UTF8String	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port	Grouped Integer32 Grouped UTF8String UTF8String	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id	Grouped Integer32 Grouped UTF8String	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port	Grouped Integer32 Grouped UTF8String UTF8String	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type	Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type	Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface	Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address	Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested	Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time	Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time	
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID	Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString	22 200 [5]
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status	Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString	32.299 [5]
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header	Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString	32.299 [5]
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString	32.299 [5]
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address	32.299 [5]
1693 UE-PC5-AMBR Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Address Address	32.299 [5]
Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2018 Client-Address 2019 Number-of-Messages-Sent	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString OctetString Enumerated Address UTF8String Enumerated Address Unsigned32	32.299 [5]
Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString OctetString Enumerated Address Unsigned32 Enumerated	32.299 [5]
Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString OctetString Enumerated Address UTF8String Enumerated Address Enumerated Time OctetString OctetString OctetString Enumerated Address Address Unsigned32 Enumerated Grouped	32.299 [5]
Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString Enumerated Address Enumerated Address OctetString OctetString Enumerated Address Address Address Address Unsigned32 Enumerated Grouped OctetString	32.299 [5]
Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString OctetString Enumerated Address UTF8String Enumerated Address Enumerated Time OctetString OctetString OctetString Enumerated Address Address Unsigned32 Enumerated Grouped	32.299 [5]
Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString Enumerated Address Address Address Unsigned32 Enumerated Grouped OctetString UTF8String	32.299 [5]
Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information	Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString CotetString Enumerated Address Enumerated Address Address Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String	32.299 [5]
Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information	Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString OctetString Enumerated Address Address Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String Enumerated	32.299 [5]
Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Recipient-Info 2025 Recipient-Info	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString UTF8String Enumerated Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String Enumerated Grouped	32.299 [5]
Note: The AVP codes from 1694 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information	Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString OctetString Enumerated Address Address Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String Enumerated	32.299 [5]

2029 SM-Service-Type	Enumerated	
2030 MMTel-Information	Grouped	
2031 MMTel-Sservice-Type	Unsigned32	
2032 Service-Mode	Unsigned32	
2033 Subscriber-Role	Enumerated	
2034 Number-Of-Diversions		
2034 Number-Or-Diversions 2035 Associated-Party-Address	Unsigned32 UTF8String	
2036 SDP-Type	Enumerated	
2037 Change-Condition	Integer32	
2038 Change-Time	Time	
2039 Diagnostics	Integer32	
2040 Service-Data-Container	Grouped	
2041 Start-Time	Time	
2042 Stop-Time	Time	
2043 Time-First-Usage	Time	
2044 Time-Last-Usage	Time	
2045 Time-Usage	Unsigned32	
2046 Traffic-Data-Volumes	Grouped	
2047 Serving-Node-Type	Enumerated	
2048 Supplementary-Service	Grouped	
2049 Participant-Action-Type	Enumerated	
2050 PDN-Connection-Charging-ID	Unsigned32	
2051 Dynamic-Address-Flag	Enumerated	
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.	Litamerated	
2100 reserved	_	
2100 reserved 2101 Application-Server-ID	- UTF8String	
2101 Application-Server-ID 2102 Application-Service-Type	Enumerated	
2103 Application-Session-ID	Unsigned32	
2104 Delivery-Status	UTF8String	
2105 reserved	-	
2106 reserved	-	
2107 reserved	-	
2108 reserved	-	00 000 :-:
2109 reserved	-	32.299 [5]
2110 IM-Information	Grouped	
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112 Number-Of-Messages-Successfully-Sent	Unsigned32	
2113 Total-Number-Of-Messages-Exploded	Unsigned32	
2114 Total-Number-Of-Messages-Sent	Unsigned32	
2115 DCD-Information	Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String	
2118 Charge-Reason-Code	Enumerated	
Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299.		
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	20 245 [22]
2202 Subsession-Id	Unsigned32	29.215 [22]
2203 Subsession-Operation	Enumerated	
<u> </u>	· .	

2204 Multiple PDEDE Action Enumerated	
2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString	
S S S S S S S S S S S S S S S S S S S	
2206 DRA-Deployment Enumerated	
2207 PCRF-Address DiameterIdentity	
2208 DRA-Binding Enumerated	
Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215.	
2300 reserved -	
2301 SIP-Request-Timestamp-Fraction Unsigned32	
2302 SIP-Response-Timestamp-Fraction Unsigned32	
2303 Online-Charging-Flag Enumerated	
2304 CUG-Information OctetString	
2305 Real-Time-Tariff-Information Grouped	
2306 Tariff-XML UTF8String	
2307 MBMS GW-Address Address	
2308 IMSI-Unauthenticated-Flag Enumerated	
2309 Account-Expiration Time	
2310 AoC-Format Enumerated	
2311 AcC-Service Enumerated	
2312 AoC-Service-Obligatory-Type Grouped	2.299 [5]
2313 AoC-Service-Type Enumerated	
2314 AoC-Subscription-Information Grouped	
2315 Preferred-AoC-Currency Unsigned32	
2316 Reserved -	
2317 CSG-Access-Mode Enumerated	
2318 CSG-Membership-Indication Enumerated	
2319 User-CSG-Information Grouped	
2320 Outgoing-Session-Id UTF8String	
2321 Initial-IMS-Charging-Identifier UTF8String	
2322 IMS-Emergency-Indicator Enumerated	
2323 MBMS-Charged-Party Enumerated	
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.	
2400 LMSI OctetString	
2400 Elvisi Octetstring 2401 Serving-Node Grouped	
2402 MME-Name DiameterIdentity	
2403 MSC-Number OctetString	
2404 LCS-Capabilities-Sets Unsigned32	
2404 LCG-Capabilities-Sets OffsignedS2 2405 GMLC-Address Address	
2406 Additional-Serving-Node Grouped	.173 [25]
2407 PPR-Address Address	
2408 MME-Realm DiameterIdentity	
2409 SGSN-Name DiameterIdentity	
2410 SGSN-Realm DiameterIdentity	
2410 SGSN-Realin Blameteridentity 2411 RIA-Flags Unsigned32	
Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173.	
2500 SLg-Location-Type Enumerated	
2500 SLg-Location-Type Enumerated 2501 LCS-EPS-Client-Name Grouped	
2502 LCS-Requestor-Name Grouped	
2503 LCS-Priority Unsigned32	
2504 LCS-QoS Grouped	
2505 Horizontal-Accuracy Unsigned32	
2506 Vertical-Accuracy Unsigned32	
2507 Vertical-Requested Enumerated	
2508 Velocity-Requested Enumerated	
2509 Response-Time Enumerated	470 [04]
	.172 [24]
2511 LCS-Codeword UTF8String	
2512 LCS-Privacy-Check Enumerated	
2513 Accuracy-Fulfilment-Indicator Enumerated	
2514 Age-Of-Location-Estimate Unsigned32	
2515 Velocity-Estimate OctetString	
2516 EUTRAN-Positioning-Data OctetString	
2517 ECGI OctetString	
19540 U section Event	
2518 Location-Event Enumerated	
2518 Location-Event Enumerated 2519 Pseudonym-Indicator Enumerated 2520 LCS-Service-Type-ID Unsigned32	

2521 I.C.S-Privacy-Check-Non-Session Grouped				
2523 (CS-90-Class Enumerated 2524 (ERRAN-Positioning-Data OctetString 2525 (ERRAN-Positioning-Data OctetString 2526 (ERRAN-Positioning-Data OctetString 2527 (UTRAN-Positioning-Info Grouped 2528 (UTRAN-Positioning-Data OctetString 2529 (UTRAN-CANSS-Positioning-Data OctetString 2529 (UTRAN-CANSS-Positioning-Data OctetString 2529 (UTRAN-Positioning-Data OctetString 2520 (UTRAN-Positioning-Data OctetString 2521 (Deferred-Ucation-Type Unsigned32 2522 (Deferred-Ucation-Type Unsigned32 2523 (Area-Event-Info Grouped 2524 (Area-Heintification Grouped 2525 (Area-Heintification Grouped 2526 (Area-Heintification Grouped 2526 (Area-Heintification Grouped 2529 (Deferred-UTRAN-Positioning-Data Unsigned32 2540 (Pernotic-UTRAN-Data Unsigned32 2541 (Pernotic-UTRAN-Data Unsigned32 2542 (Reporting-PLMN-List Grouped 2543 (Pernoting-Data Unsigned32 2544 (PLMN-UTRAN-Data Grouped 2544 (PLMN-UTRAN-Data Grouped 2544 (PLMN-UTRAN-Data Grouped 2545 (PLR-Flags Unsigned32 2546 (PLK-Flags Unsigned32 2547 (Perford-MT-LR-Data Grouped 2548 (Purporting-Data Grouped 2549 (Purporting-Data Grouped 2540 (Pernoting-Data Grouped 2540 (Pernoting-Data Grouped 2541 (PLR-Flags Unsigned32 2542 (PLR-Flags Unsigned32 2543 (PLR-Flags Unsigned32 2544 (PLR-Flags Unsigned32 2545 (PLR-Flags Unsigned32 2546 (PLK-Flags Unsigned32 2547 (Poterred-MT-LR-Data Grouped 2548 (PLR-Flags Unsigned32 2549 (PLR-Flags Unsigned32 2549 (PLR-Flags Unsigned32 2540 (PLR			Grouped	
2524 (SERAN-Positioning-Data				
2525 GERAN-Postioning-Data OctelString 2526 GERAN-Postioning-Info Grouped 2527 UTRAN-Positioning-Info Grouped 2528 UTRAN-Positioning-Data OctelString 2529 UTRAN-Positioning-Data OctelString 2529 UTRAN-Positioning-Data OctelString 2529 UTRAN-GANSS-Positioning-Data OctelString 2529 UTRAN-GANSS-Positioning-Data OctelString 2520 UTRAN-GANSS-Positioning-Data OctelString 2521 UTRAN-GANSS-Positioning-Data OctelString 2521 Utran-GANSS-Positioning-Data OctelString 2522 Deferred-Location-Type Unsigned32 2523 Area-Event-Info Grouped 2524 Area-Definition Grouped 2525 Area Grouped 2526 Area Grouped 2526 Area-Information Grouped 2527 Area-Identification Grouped 2528 Octen-Information Grouped 2529 Interval-Time Unsigned32 2529 Octen-Information Grouped 2524 Reporting-Amount Unsigned32 2524 Reporting-Interval Unsigned32 2524 Reporting-Interval Unsigned32 2524 Reporting-Interval Unsigned32 2524 PLR-Flags Unsigned32 2524 Plemed-MT-LR-Data Grouped 2525 Periodic-Location-Support-Indicator Enumerated 2525 Prioritized-List-Indicator Enumerated 2525 Prioritized-List-Indicator Enumerated 2525 Prioritized-List-Indicator Enumerated 2525 Prioritized-List-Indicator Enumerated 2525 SMIC-Coell-Info Grouped 2526 Civic-Address Unsigned32 2527 Note: The AVP Codes from 2559 to 2599 are reserved for TS 29.172 2526 Over-Protrip-Indicator Enumerated 2527 Grand-Gardess - Periot-Location Enumerated 2528 Urrestring Urrestring 2529 Particular Grouped 2520 Planch-Machadess Urrestring 2527 Robertod-Miss-Charging-Identifier Urrestring 2528 Urrestring Grouped 2529 Prioritized-Miss-Charging-Identifier Urrestring 2710 Access-Transfer-Type Enumerated 2711 Robated-Miss-Cha				
2526 GERAN-GANSS-Positioning-Data OctelString 2528 UTRAN-Positioning-In-In-Positioning-In-In-Positioning-In-In-Positioning-In-In-Positioning-In-In-Positioning-In-In-Positioning-In-In-Positioning-In-In-Positioning-In-In-Positioning-In-In-Positioning-In-In-Positioning-In-In-Positioning-In-In-Positioning-In-In-Positioning-In-In-Positioning-In-In-In-Positioning-In-In-In-In-In-Positioning-In-In-In-In-In-In-In-In-In-In-In-In-In-				
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Description				
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2530 LCR-Flags				
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2533 Pare Syent-Info				
2533 Area-Event-Info				
2534 Area				
2536 Area - Type				
2536 Area-Type				
2533 Cacurrence-Info				
2538 Cocurrence-Info				
District District				
2540 Periodic-LDR-Information				
Each Reporting-Manuent Unsigned32			Ü	
2543 Reporting-Interval Unsigned32 2544 PLMN-ID-List Grouped 2545 PLR-Flags Unsigned32 2546 PLR-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Termination-Cause Unsigned32 2549 LR-Flags Unsigned32 2550 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 ESMLC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 2554 LRTT-RCID Grouped 2555 Cell-Portion-ID Unsigned32 2556 Civic-Address UTF8String 2557 Barometric-Pressure Unsigned32 2558 UTRAN-Additional-Positioning-Data OctetString 2558 UTRAN-Additional-Positioning-Data OctetString 2559 UTRAN-Additional-Positioning-Data OctetString 2601 IMS-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated 2603 IP-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated 2605 Pro-Address Enumerated 2606 PDP-Address Priority-Length Unsigned32 2700 Reserved				
2544 PLMN-ID-List Grouped 2544 PLMN-ID-List Grouped 2545 PLR-Flags Unsigned32 2546 PLR-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Termination-Cause Unsigned32 2549 LRA-Flags Unsigned32 2549 LRA-Flags Unsigned32 2549 LRA-Flags Unsigned32 2540 Deferred-MT-LR-Data Grouped 2541 Deferred-MT-LR-Data Grouped 2542 Deferred-MT-LR-Data Unsigned32 2543 LRA-Flags Unsigned32 2544 Deferred-MT-LR-Data Grouped 2550 Periodic-Location-Support-Indicator Enumerated 2551 Enumerated Enumerated 2552 ESML-C-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 2554 URTT-RCID OctetString 2555 Delayed-Location-Reporting-Data Grouped 2556 Delayed-Location-Reporting-Data Grouped 2557 Barometric-Pressure Unsigned32 2558 UTRAN-Additional-Positioning-Data OctetString 2559 Unsigned32 OctetString 2560 Inserved CotetString 2560 Inserved CotetString 2560 Inserved CotetString 2561 Imserved CotetString 2562 Local-GW-Inserted-Indicator Enumerated 2563 Inserved CotetString 2564 Local-GW-Inserted-Indicator Enumerated 2565 Enumerated Salasian-Default-Indicator Enumerated 2560 PoP-Address-Prefix-Length Unsigned32 2561 Transcoder-Inserted-Indicator Enumerated 2562 Enumerated CotetString CotetString 2563 Cell-GW-Inserted-Indicator Enumerated 2564 Local-GW-Inserted-Indicator Enumerated 2565 Enumerated CotetString CotetString 2566 PoP-Address-Prefix-Length Unsigned32 2567 Relationship-Mode Enumerated 2568 CotetString CotetString CotetString 2570 Reserved CotetString CotetString 2571 Related-IMS-Charging-Identifier UTF8String 2711 Related-IMS-Charging-Identifier UTF8String 2712 Related-IMS-Charging-Identifier UTF8String 2713 IMS-Visited-Network-Identifier UTF8String 2714 Related-IMS-Charging-Identifier UTF8String 2715 Reserved CotetString UTF8String 271				
EASH PLMN-ID-List Grouped				
2546 PLA-Flags				
2546 PLA-Flags				
Deferred-MT-LR-Data				
Estator Termination Cause Unsigned32 End E				
2549 RA-Flags				
2550 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 ESMLC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 2554 IxRTT-RCID OctetString 2555 Delayed-Location-Reporting-Data Grouped 2556 Civic-Address UTF8String 2557 Barometric-Pressure Unsigned32 2558 UTRAN-Additional-Positioning-Data OctetString 2559 Delayed-Location-Reporting-Data OctetString 2560 Impaired OctetString 2570 Barometric-Pressure Unsigned32 2580 UTRAN-Additional-Positioning-Data OctetString 2581 UTRAN-Additional-Positioning-Data OctetString 2582 Unsigned32 OctetString 2583 UTRAN-Additional-Positioning-Data OctetString 2600 Impaired Unsigned32 OctetString 2601 Impaired UTF8String 2602 Low-Priority-Indicator Enumerated 2603 In-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated 2605 Transcoder-Inserted-Indicator Enumerated 2606 PDP-Address-Prefix-Length Unsigned32 2700 Reserved 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Grouped 2710 Access-Transfer-Information Grouped 2711 Related-IMS-Charging-Identifier UTF8String 2712 Related-IMS-Charging-Identifier UTF8String 2713 IMS-Visited-Network-Identifier UTF8String 2714 TWAN-User-Location-Info Grouped 2715 Reserved 2716 RSSID UTF8String 27176 RSSID UTF8String 2718 RSSID UTF8String 2719 Care Care Care Care Care Care Care Care 2710 Care Care Care Care Care Care Care Care Care 2711 Care Care Care Care Care Care Care Care 2712 Related-IMS-Charging-Identifier UTF8String 2713 RSS				
Estil Prioritized-List-Indicator Enumerated				
2552 ESMLC-Cell-Info				
2553 Cell-Portion-ID				
2554 1xRTT-RCID				
2555 Delayed-Location-Reporting-Data Grouped				
2556 Civic-Address UTF8String 2557 Barometric-Pressure Unsigned32 2558 UTRAN-Additional-Positioning-Data OctetString Note: The AVP codes from 2559 to 2599 are reserved for TS 29.172.				
2557 Barometric-Pressure				
Description				
Note: The AVP codes from 2559 to 2599 are reserved for TS 29.172.				
2600 reserved			Octerating	
2601 IMS-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated 2603 IP-Realm-Default-Indicator Enumerated Enumerated 2604 Local-GW-Inserted-Indicator Enumerated 2605 Transcoder-Inserted-Indicator Enumerated 2606 PDP-Address-Prefix-Length Unsigned32			_	
2602 Low-Priority-Indicator Enumerated 2603 IP-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated 2605 Transcoder-Inserted-Indicator Enumerated 2606 PDP-Address-Prefix-Length Unsigned32 Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299. - 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2708 From-Address UTF8String 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 UTF8Strin			LITESString	
2603 IP-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated 2605 Transcoder-Inserted-Indicator Enumerated 2606 PDP-Address-Prefix-Length Unsigned32 Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299. — 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Grouped 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				
2604 Local-GW-Inserted-Indicator Enumerated 2605 Transcoder-Inserted-Indicator Enumerated 2606 PDP-Address-Prefix-Length Unsigned32 Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299. - 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Grouped 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				32 299 [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. - 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Grouped 2710 Access-Transfer-Type Enumerated 2711 Related-IMS-Charging-Identifier UTF8String 2713 IMS-Visited-Network-Identifier UTF8String 2714 TWAN-User-Location-Info Grouped 2715 Reserved - 2716 BSSID UTF8String				02.200 [0]
2606 PDP-Address-Prefix-Length Unsigned32 Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299. - 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Grouped 2710 Access-Transfer-Type Enumerated 2711 Related-IMS-Charging-Identifier UTF8String 2713 IMS-Visited-Network-Identifier UTF8String 2714 TWAN-User-Location-Info Grouped 2715 Reserved - 2716 BSSID UTF8String				
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299. 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Grouped 2710 Access-Transfer-Type Enumerated 2711 Related-IMS-Charging-Identifier UTF8String 2712 Related-IMS-Charging-Identifier Address UTF8String 2713 IMS-Visited-Network-Identifier UTF8String 2714 TWAN-User-Location-Info Grouped 2715 Reserved - 2716 BSSID UTF8String				
2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Grouped 2710 Access-Transfer-Type Enumerated 2711 Related-IMS-Charging-Identifier UTF8String 2712 Related-IMS-Charging-Identifier UTF8String 2713 IMS-Visited-Network-Identifier UTF8String 2714 TWAN-User-Location-Info Grouped 2715 Reserved - 2716 BSSID UTF8String		· · · · · · · · · · · · · · · · · · ·		
2701Transit-IOI-ListUTF8String2702Status-AS-CodeEnumerated2703NNI-InformationGrouped2704NNI-TypeEnumerated2705Neighbour-Node-AddressAddress2706Relationship-ModeEnumerated2707Session-DirectionEnumerated2708From-AddressUTF8String2709Access-Transfer-InformationGrouped2710Access-Transfer-TypeEnumerated2711Related-IMS-Charging-IdentifierUTF8String2712Related-IMS-Charging-IdentifierUTF8String2713IMS-Visited-Network-IdentifierUTF8String2714TWAN-User-Location-InfoGrouped2715Reserved-2716BSSIDUTF8String			-	
2702Status-AS-CodeEnumerated2703NNI-InformationGrouped2704NNI-TypeEnumerated2705Neighbour-Node-AddressAddress2706Relationship-ModeEnumerated2707Session-DirectionEnumerated2708From-AddressUTF8String2709Access-Transfer-InformationGrouped2710Access-Transfer-TypeEnumerated2711Related-IMS-Charging-IdentifierUTF8String2712Related-IMS-Charging-IdentifierUTF8String2713IMS-Visited-Network-IdentifierUTF8String2714TWAN-User-Location-InfoGrouped2715Reserved-2716BSSIDUTF8String			UTF8String	
2703NNI-InformationGrouped2704NNI-TypeEnumerated2705Neighbour-Node-AddressAddress2706Relationship-ModeEnumerated2707Session-DirectionEnumerated2708From-AddressUTF8String2709Access-Transfer-InformationGrouped2710Access-Transfer-TypeEnumerated2711Related-IMS-Charging-IdentifierUTF8String2712Related-IMS-Charging-Identifier-NodeAddress2713IMS-Visited-Network-IdentifierUTF8String2714TWAN-User-Location-InfoGrouped2715Reserved-2716BSSIDUTF8String				
2704NNI-TypeEnumerated2705Neighbour-Node-AddressAddress2706Relationship-ModeEnumerated2707Session-DirectionEnumerated2708From-AddressUTF8String2709Access-Transfer-InformationGrouped2710Access-Transfer-TypeEnumerated2711Related-IMS-Charging-IdentifierUTF8String2712Related-IMS-Charging-Identifier-NodeAddress2713IMS-Visited-Network-IdentifierUTF8String2714TWAN-User-Location-InfoGrouped2715Reserved-2716BSSIDUTF8String				
2705Neighbour-Node-AddressAddress2706Relationship-ModeEnumerated2707Session-DirectionEnumerated2708From-AddressUTF8String2709Access-Transfer-InformationGrouped2710Access-Transfer-TypeEnumerated2711Related-IMS-Charging-IdentifierUTF8String2712Related-IMS-Charging-Identifier-NodeAddress2713IMS-Visited-Network-IdentifierUTF8String2714TWAN-User-Location-InfoGrouped2715Reserved-2716BSSIDUTF8String				
2706Relationship-ModeEnumerated2707Session-DirectionEnumerated2708From-AddressUTF8String2709Access-Transfer-InformationGrouped2710Access-Transfer-TypeEnumerated2711Related-IMS-Charging-IdentifierUTF8String2712Related-IMS-Charging-Identifier-NodeAddress2713IMS-Visited-Network-IdentifierUTF8String2714TWAN-User-Location-InfoGrouped2715Reserved-2716BSSIDUTF8String				
2707Session-DirectionEnumerated2708From-AddressUTF8String2709Access-Transfer-InformationGrouped2710Access-Transfer-TypeEnumerated2711Related-IMS-Charging-IdentifierUTF8String2712Related-IMS-Charging-Identifier-NodeAddress2713IMS-Visited-Network-IdentifierUTF8String2714TWAN-User-Location-InfoGrouped2715Reserved-2716BSSIDUTF8String				
2708From-AddressUTF8String2709Access-Transfer-InformationGrouped2710Access-Transfer-TypeEnumerated2711Related-IMS-Charging-IdentifierUTF8String2712Related-IMS-Charging-Identifier-NodeAddress2713IMS-Visited-Network-IdentifierUTF8String2714TWAN-User-Location-InfoGrouped2715Reserved-2716BSSIDUTF8String				
2709 Access-Transfer-InformationGrouped2710 Access-Transfer-TypeEnumerated2711 Related-IMS-Charging-IdentifierUTF8String2712 Related-IMS-Charging-Identifier-NodeAddress2713 IMS-Visited-Network-IdentifierUTF8String2714 TWAN-User-Location-InfoGrouped2715 Reserved-2716 BSSIDUTF8String				22 200 [5]
2710Access-Transfer-TypeEnumerated2711Related-IMS-Charging-IdentifierUTF8String2712Related-IMS-Charging-Identifier-NodeAddress2713IMS-Visited-Network-IdentifierUTF8String2714TWAN-User-Location-InfoGrouped2715Reserved-2716BSSIDUTF8String				J∠.∠99 [5]
2711Related-IMS-Charging-IdentifierUTF8String2712Related-IMS-Charging-Identifier-NodeAddress2713IMS-Visited-Network-IdentifierUTF8String2714TWAN-User-Location-InfoGrouped2715Reserved-2716BSSIDUTF8String				
2712Related-IMS-Charging-Identifier-NodeAddress2713IMS-Visited-Network-IdentifierUTF8String2714TWAN-User-Location-InfoGrouped2715Reserved-2716BSSIDUTF8String				
2713IMS-Visited-Network-IdentifierUTF8String2714TWAN-User-Location-InfoGrouped2715Reserved-2716BSSIDUTF8String			Address	
2715 Reserved - 2716 BSSID UTF8String	2713	IMS-Visited-Network-Identifier		
2716 BSSID UTF8String			Grouped	
			-	
2717 TAD-Identifier Enumerated			UTF8String	
	2717	TAD-Identifier	Enumerated	

Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299.		
2800 Reserved	_	
2801 ADC-Revalidation-Time	Time	
2802 TDF-Application-Instance-Identifier	OctetString	
2803 HeNB-BBF-FQDN	UTF8String	
2804 HeNB-Local-IP-Address	Address	
2805 UE-Local-IP-Address	Address	
2806 UDP-Source-Port	Unsigned32	
2807 CS-Service-Qos-Request-Identifier	OctetString	
2808 CS-Service-QoS-Request-Operation	Enumerated	
2809 Mute-Notification	Enumerated	
2810 Monitoring-Time	Time	
2811 AN-GW-Status	Enumerated	
2812 User-Location-Info-Time	Grouped	
2813 CS-Service-Resource-Report	Time	
2814 CS-Service-Resource-Failure-Cause	Enumerated	
2815 CS-Service-Resource-Result-Operation	Enumerated	
2816 Default-QoS-Information	Grouped	
2817 Default-QoS-Name	UTF8String	
2818 Conditional-APN-Aggregate-Max-Bitrate	Grouped	
2819 RAN-NAS-Release-Cause	OctetString	
2820 Presence-Reporting-Area-Elements-List	OctetString	
2821 Presence-Reporting-Area-Identifier	OctetString	29.212 [19]
2822 Presence-Reporting-Area-Information	Grouped Unsigned32	
2823 Presence-Reporting-Area-Status 2824 NetLoc-Access-Support	Unsigned32 Unsigned32	
2825 Fixed-User-Location-Info	Grouped	
2826 PCSCF-Restoration-Indication	Unsigned32	
2827 IP-CAN-Session-Charging-Scope	Enumerated	
2828 Monitoring-Flags	Unsigned32	
2829 Default-Access	Enumerated	
2830 NBIFOM-Mode	Enumerated	
2831 NBIFOM-Support	Enumerated	
2832 RAN-Rule-Support	Unsigned32	
2833 Access-Availability-Change-Reason	Unsigned32	
2834 Routing-Rule-Failure-Code	Unsigned32	
2835 Routing-Rule-Report	Grouped	
2836 Traffic-Steering-Policy-Identifier-DL	OctetString	
2837 Traffic-Steering-Policy-Identifier-UL	OctetString	
2838 Request-Type	Unsigned32	
2839 Execution-Time	Time	
2840 Conditional-Policy-Information	Grouped	
2841 Resource-Release-Notification	Enumerated	
2842 Removal-Of-Access	Enumerated	
2843 TCP-Source-Port	Unsigned32	
Note: The AVP codes from 2844 to 2899 are reserved for TS 29.212.		
2900 reserved	-	
2901 Policy-Counter-Identifier	Grouped	00 040 500
2902 Policy-Counter-Status	UTF8String	29.219 [26]
2903 Policy-Counter-Status-Report	Grouped	
2904 SL-Request-Type	Enumerated	
Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219.	_	
3000 reserved 3001 Device-Action	Crounce	
3001 Device-Action 3002 Device-Notification	Grouped Grouped	
3003 Trigger-Data	Grouped	
3004 Payload	OctetString	
3005 Action-Type	Enumerated	
3006 Priority-Indication	Enumerated	29.368 [27]
3007 Reference-Number	Unsigned32	29.000 [21]
3008 Request-Status	Enumerated	
3009 Delivery-Outcome	Enumerated	
3010 Application-Port-Identifier	Unsigned32	
3011 Old-Reference-Number	Unsigned32	
3012 Feature-Supported-In-Final-Target	Unsigned32	

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Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.	Ooto+Ctrin =	
3100 IP-SM-GW-Number 3101 IP-SM-GW-Name	OctetString	
3102 User-Identifier	DiameterIdentity	
3103 Service-ID	Grouped Enumerated	
3104 SCS-Identity	OctetString	
3105 Service-Parameters	Grouped	
3106 T4-Parameters	Grouped	
3107 Service-Data	Grouped	
3108 T4-Data	Grouped	
3109 HSS-Cause	Unsigned32	
3110 SIR-Flags	Unsigned32	
3111 External-Identifier	UTF8String	
3112 IP-SM-GW-Realm	DiameterIdentity	
3113 AESE-Communication-Pattern	Grouped	
3114 Communication-Pattern-Set	Grouped	
3115 Periodic-Communication-Indicator	Unsigned32	
3116 Communication-Duration-Time	Unsigned32	
3117 Periodic-Time	Unsigned32	
3118 Scheduled-Communication-Time	Grouped	
3119 Stationary-Indication	Unsigned32	
3120 AESE-Communication-Pattern-Config-Status	Grouped	
3121 AESE-Error-Report	Grouped	
3122 Monitoring-Event-Configuration	Grouped	
3123 Monitoring-Event-Report	Grouped	
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	
3131 Maximum-Detection-Time	Unsigned32	29.336 [28]
3132 Reachability-Type	Unsigned32	
3133 Maximum-Latency	Unsigned32	
3134 Maximum-Response-Time	Unsigned32	
3135 Location-Information-Configuration	Grouped	
3136 MONTE-Location-Type	Unsigned32	
3137 Accuracy	Unsigned32	
3138 Association-Type	Unsigned32	
3139 Roaming-Information	Unsigned32	
3140 Reachability-Information	Unsigned32	
3141 IMEI-Change	Unsigned32	
3142 Monitoring-Event-Config-Status	Grouped	
3143 Supported-Service-Masks	Grouped	
3144 Supported-Monitoring-Event-Mask	Unsigned64	
3145 CIR-Flags	Unsigned32	
3146 Service-Result	Grouped	
3147 Service-Result-Code	Unsigned32	
3148 Reference-ID-Validity-Time	Time	
3149 Event-handling	Unsigned32	
3150 NIDD-Authorization-Request	Grouped	
3151 NIDD-Authorization-Response	Grouped	
3152 Service-Report	Grouped	
3153 Node-Type	Unsigned32	
3154 S6t-HSS-Cause 3155 Enhanced-Coverage-Restriction	Unsigned32 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	
Note: The AVP codes from 3163 to 3199 are reserved for TS 29.336.	l Onsignedsz	
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0000	011.5 " 0		
	SM-Delivery-Outcome-T4	Enumerated	
	Absent-Subscriber-Diagnostic-T4	Enumerated	29.337 [29]
	Trigger-Action	Unsigned32	
	MTC-Error-Diagnostic	Unsigned32	
	The AVP codes from 3204 to 3299 are reserved for TS 29.337.	OctotString	
	SC-Address SM-RP-UI	OctetString OctetString	
		Unsigned32	
	TFR-Flags SM-Delivery- Failure-Cause	Grouped	
3303	SM-Enumerated-Delivery-Failure-Cause	Enumerated	
	SM-Diagnostic-Info	OctetString	
	SM-Delivery-Timer	Unsigned32	
	SM-Delivery-Start-Time	Time	
	SM-RP-MTI	Enumerated	
	SM-RP-SMEA	OctetString	
	SRR-Flags	Unsigned32	
3311	SM-Delivery-Not-Intended	Enumerated	
	MWD-Status	Unsigned32	
	MME-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
	MSC-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
	SGSN-Absent-User-Subscriber-Diagnostic SM	Unsigned32	
	SM-Delivery-Outcome	Grouped	00 000 1001
	MME-SM-Delivery-Outcome	Grouped	29.338 [30]
	MSC-SM-Delivery-Outcome	Grouped	
	SGSN-SM-Delivery-Outcome	Grouped	
3320	IP-SM-GW-SM-Delivery-Outcome	Grouped	
	SM-Delivery-Cause	Enumerated	
	Absent-User-Diagnostic-SM	Unsigned32	
	RDR-Flags	Unsigned32	
	SMSMI-Correlation-ID	Unsigned32	
	HSS-ID	UTF8String	
	Originating-SIP-URI	UTF8String	
	Destination-SIP-URI	UTF8String	
	OFR-Flags	Unsigned32	
	Maximum-UE-Availability-Time	Time	
	Maximum-Retransmission-Time	Time	
	Requested-Retransmission-Time	Time	
	SMS-GMSC-Address SMS-GMSC-Alert-Event	OctetString Unsigned32	
	The AVP codes from 3334 to 3399 are reserved for TS 29.338.	Unsigned32	
	reserved	_	
	Reason-Header	UTF8String	
	Instance-Id	UTF8String	
	Route-Header-Received	UTF8String	
	Route-Header-Transmitted	UTF8String	
	SM-Device-Trigger-Information	Grouped	
	MTC-IWF-Address	Address	
	SM-Device-Trigger-Indicator	Enumerated	
	SM-Sequence-Number	Unsigned32	
	SMS-Result	Unsigned32	
	VCS-Information	Grouped	
	Basic-Service-Code	Grouped	
	Bearer-Capability	OctetString	32.299 [5]
	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 ISUP-Cause-Value	Unsigned32	
	UCLUA Causa Malua	Unsigned32	

3425	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	
3435	ProSe-PC3-EPC-Control-Protocol-Cause	Integer32	
3436	Requested-PLMN-Identifier	UTF8String	
3437	Requestor-PLMN-Identifier	UTF8String	
	Role-Of-ProSe-Function	Enumerated	
	Usage-Information-Report-Sequence-Number	Integer32	
	ProSe-3rd-Party-Application-ID	UTF8String	
	ProSe-Direct-Communication-Transmission-Data-Container	Grouped	
		Enumerated	
	ProSe-Direct-Discovery-Model		
	ProSe-Event-Type	Enumerated	
	ProSe-Function-IP-Address	Address	
	ProSe-Functionality	Enumerated	
	ProSe-Group-IP-Multicast-Addresses	Address	
	ProSe-Information	Grouped	
3448	ProSe-Range-Class	Enumerated	
	ProSe-Reason-For-Cancellation	Enumerated	
	ProSe-Request-Timestamp	Time	
	ProSe-Role-Of-UE	Enumerated	
	ProSe-Source-IP-Address	Address	
	ProSe-UE-ID	OctetString	
	Proximity-Alert-Indication	Enumerated	
	Proximity-Alert-Timestamp	Time	
	Proximity-Cancellation-Timestamp	Time	
	ProSe-Function-PLMN-Identifier	UTF8String	
	Application-Specific-Data	OctetString	
	Coverage-Info	Grouped	
3460	Location-Info	Grouped	
3461	ProSe-Direct-Communication-Reception-Data-Container	Grouped	
3462	Radio-Frequency	OctetString	
	Radio-Parameter-Set-Info	Grouped	
	Radio-Parameter-Set-Values	OctetString	
	Radio-Resources-Indicator	Integer32	
	Time-First-Reception	Time	
	Time-First-Transmission	Time	
	Transmitter-Info	Grouped	
		Grouped	
	The AVP codes from 3469 to 3499 are reserved for TS 32.299.	۸ dd=====	
	BMSC-Address	Address	
	BMSC-Port	Unsigned32	
	MBMS-Bearer-Event	Unsigned32	
	MBMS-Bearer-Event-Notification	Grouped	
	MBMS-Bearer-Request	Grouped	
3505	MBMS-Bearer-Response	Grouped	
	MBMS-Bearer-Result	Unsigned32	
3507	MBMS-Start-Time	Time	
	Radio-Frequency	Unsigned32	
	TMGI-Allocation-Request	Grouped	
	TMGI-Allocation-Response	Grouped	29.468 [31]
	TMGI-Allocation-Result	Unsigned32	
	TMGI-Allocation-Reguest	Grouped	
	TMGI-Deallocation-Response	Grouped	
	TMGI-Deallocation-Result	Unsigned32	
	TMGI-Expiry	Grouped	
	TMGI-Number	Unsigned32	
	MB2U-Security	Unsigned32	
	Local-M1-Information	Grouped	
3519	Local-MB2-U-Information	Grouped	
	·		

MBMS-eNB-IP-Multicast-Address	3-IPv6-Multicast-Address Address 7-SSM-IP-Address Address 7-SSM-IPv6-Address Address Tunnel-Endpoint-Identifier OctetString Todes from 3525 to 3599 are reserved for TS 29.468. -Layer-User-Id UTF8String
	7-SSM-IP-Address Address 7-SSM-IPv6-Address Address Tunnel-Endpoint-Identifier OctetString Todes from 3525 to 3599 are reserved for TS 29.468. -Layer-User-Id UTF8String
	7-SSM-IPv6-Address Address Tunnel-Endpoint-Identifier OctetString odes from 3525 to 3599 are reserved for TS 29.468Layer-User-Id UTF8String
Note: The AVP codes from 3525 to 3599 are reserved for TS 29.468.	Tunnel-Endpoint-Identifier OctetString odes from 3525 to 3599 are reserved for TS 29.468. -Layer-User-Id UTF8String
Note: The AVP codes from 3525 to 3599 are reserved for TS 29.468.	odes from 3525 to 3599 are reserved for TS 29.468. -Layer-User-Id UTF8String
19600 Origin-App-Layer-User-Id	-Layer-User-Id UTF8String
Section	LITEQCtring
3603 ProSe-Request-Type	
Section Poul	
3605 Application-Data	
3606 Allowed-Suffixes-Number Unsigned32 29.343 [32] 3607 Monitor-Target Grouped Grouped 3608 ProSe-Code-Suffix-Mask Grouped 3609 Suffix-Code OctetString Grouped 3610 Suffix-Mask OctetString 3611 Banned-User-Target Grouped Unsigned32 3612 Metadata-Indicator Unsigned32 Unsigned32 Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343. Grouped 3702 ProSe-Permission Unsigned32 3702 ProSe-Permission Unsigned32 3703 ProSe-Allowed-PLMN Grouped Unsigned32 3705 UPR-Flags Unsigned32 3705 UPR-Flags Unsigned32 3705 UPR-Flags Unsigned32 3706 PNR-Flags Unsigned32 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 Unsigned32 3708 Authorized-Discovery-Range Unsigned32 3809 Reserved Unsigned32 3801 App-Layer-User-Id UTF8String 3802 Assistance-info Grouped 3803 Assistance-info Grouped 3803 Assistance-info Grouped 3804 Discovery-Type Unsigned32 3806 MAC-Address UTF8String 3807 Match-Report Grouped Unsigned32 3809 P2F-Features Unsigned32 3810 ProSe-App-Code UTF8String 3811 ProSe-App-Mask UTF8String 3813 ProSe-App-Mask UTF8String 3813 ProSe-App-Mask UTF8String 3813 ProSe-Discovery-Filter Grouped UTF8String Grouped UTF8String 3813 ProSe-Discovery-Filter Grouped UTF8String Grouped UTF8String Grouped UTF8String UT	
3607 Monitor-Target Grouped 3608 ProSe-Code-Suffix-Mask Grouped 3609 Suffix-Code OcteString 3610 Suffix-Mask OcteString 3611 Banned-User-Target Grouped 3612 Metadata-Indicator Unsigned32 Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343.	
3608 ProSe-Code-Suffix-Mask Grouped	
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S705 DPR-Flags Unsigned32	
3707ProSe-Initial-Location-InformationGrouped3708Authorized-Discovery-RangeUnsigned32Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344.3800Reserved3801App-Layer-User-IdUTF8String3802Assistance-infoGrouped3803Assistance-Info-Validity-TimerUnsigned323804Discovery-TypeUnsigned323805Filter-IdOctetString3806MAC-AddressUTF8String3807Match-ReportGrouped3808Operating-ChannelUnsigned323809P2P-FeaturesUnsigned323810ProSe-App-CodeUTF8String3811ProSe-App-IdUTF8String3812ProSe-App-MaskUTF8String3813ProSe-Discovery-FilterGrouped	
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3813 ProSe-Discovery-Filter Grouped	U U U U U U U U U U U U U U U U U U U
	v
3814 PRR-Flags Unsigned32	
3815 ProSe-Validity-Timer Unsigned32	
3816 Requesting-EPUID UTF8String	
3817 Targeted-EPUID UTF8String 29.345 [34]	v
3818 Time-window Unsigned32	
3819 WiFi-P2P-Assistance-Info Grouped	
3820 WLAN-Assistance-Info Grouped	
3821 WLAN-Link-Layer-Id OctetString	
3822 WLAN-Link-Layer-Id-List Grouped	
3823 Location-Update-Trigger Grouped	
3824 Location-Update-Event-Type Unsigned32	
3825 Change-Of-Area-Type Grouped	
3826 Location-Update-Event-Trigger Unsigned32	
3827 Report-Cardinality Enumerated	
3828 Minimum-Interval-Time Unsigned32	
3829 Periodic-Location-Type Grouped	
3830 Location-Report-Interval-Time Unsigned32	
3831 Total-Number-Of-Reports Unsigned32	
3832 Validity-Time-Announce Unsigned32	ne-Announce Unsigned32
	ne-Monitor Unsigned32
3835 ProSe-App-Code-Info Grouped	ne-Monitor Unsigned32 ne-Communication Unsigned32

3836	MIC	OctetString	
	UTC-based-Counter	Unsigned32	
	ProSe-Match-Refresh-Timer		
		Unsigned32	
	ProSe-Metadata-Index-Mask	OctetString	
	App-Identifier App-Identifier	Grouped	
	OS-ID	OctetString	
	OS-App-ID	UTF8String	
	Requesting-RPAUID	UTF8String	
	Target-RPAUID	UTF8String	
3845	Target-PDUID	OctetString	
3846	ProSe-Restricted-Code	OctetString	
3847	ProSe-Restricted-Code-Suffix-Range	OctetString	
	Beginning-Suffix	OctetString	
	Ending-Suffix	OctetString	
	Discovery-Entry-ID	Unsigned32	
	Match-Timestamp	Time	
	PMR-Flags	Unsigned32	
	ProSe-Application-Metadata	UTF8String	
	Discovery-Auth-Request	Grouped	
	Discovery-Auth-Response	Grouped	
	Match-Request	Grouped	
	Match-Report-Info	Grouped	
	Banned-RPAUID	UTF8String	
	Banned-PDUID	OctetString	
	Code-Receiving-Security-Material	Grouped	
	Code-Sending-Security-Material	Grouped	
3862	DUSK	OctetString	
	DUIK	OctetString	
	DUCK	OctetString	
	MIC-Check-indicator	Unsigned32	
	Encrypted-Bitmask	OctetString	
	ProSe-App-Code-Suffix-Range	OctetString	
	The AVP codes from 3868 to 3899 are reserved for TS 29.345.	Octetating	
		T	
	Reserved		
	Enhanced-Diagnostics	Grouped	
	Inter-UE-Transfer	Enumerated	
	TWAG-Address	Address	
	Announcement-Information	Grouped	
	Announcement-Identifier	Unsigned32	
3906	Announcement-Order	Unsigned32	
3907	Variable-Part	Grouped	
3908	Variable-Part-Order	Unsigned32	
	Variable-Part-Type	Unsigned32	
	Variable-Part-Value	UTF8String	
	Time-Indicator	Unsigned32	
	Quota-Indicator	Enumerated	
	Play-Alternative	Enumerated	
	Language	UTF8String	
	Privacy-Indicator	Enumerated	32.299 [5]
	Called-Identity	UTF8String	• •
	Called-Identity-Change	Grouped	
	UWAN-User-Location-Info	Grouped	
	Monitoring-Event-Configuration-Activity	Integer32	
	Monitoring-Event-Report-Data	Grouped	
	Monitoring-Event-Information	Grouped	
	Monitoring-Event-Functionality	Integer32	
3923	Monitoring-Event-Report-Number	Unsigned32	
	Cellular-Network-Information	OctetString	
	Related-Change-Condition-Information	Grouped	
	Related-Trigger	Grouped	
	CPDT-Information	Grouped	
	NIDD-Submission	Grouped	
		DiameterIdentity	
	Serving-Node-Identity		
1.59.50	CP-CIoT-EPS-Optimisation-Indicator	Enumerated	
	SGi-PtP-Tunnelling-Method	Enumerated	

3932 UNI-PDU-CP-Only-Flag	Enumerated	
3933 APN-Rate-Control	Grouped	
3934 APN-Rate-Control-Downlink	Grouped	
3935 APN-Rate-Control-Uplink	Grouped	
3936 Additional-Exception-Reports	Enumerated	
3937 Rate-Control-Max-Message-Size	Unsigned32	
3938 Rate-Control-Max-Rate	Unsigned32	
3939 Rate-Control-Time-Unit	Unsigned32	
3940 SCS-AS-Address	Grouped	
3941 SCS-Address	Address	
3942 SCS-Realm	DiameterIdentity	
Note: The AVP codes from 3943 to 3999 are reserved for TS 32.299.		
4000 Aggregated-Congestion-Info	Grouped	
4001 Aggregated-RUCI-Report	Grouped	
4002 Congestion-Level-Definition	Grouped	
4003 Congestion-Level-Range	Unsigned32	
4004 Congestion-Level-Set-Id	Unsigned32	
4005 Congestion-Level-Value	Unsigned32	
4006 Congestion-Location-Id	Grouped	
4007 Conditional-Restriction	Unsigned32	29.217 [35]
4008 eNodeB-Id	OctetString	
4009 IMSI-List	OctetString	
4010 RCAF-Id	DiameterIdentity	
4010 RCAF-Id 4011 Reporting-Restriction	Unsigned32	
4012 RUCI-Action	Unsigned32	
4013 Extended-eNodeB-ID Note: The AVP codes from 4014 to 4099 are reserved for TS 29.217.	OctetString	
	Cravrand	
4101 Network-Congestion-Area-Report	Grouped	29.153 [37]
4102 Ns-Request-Type	Unsigned32	
Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.	0-1-101	
4201 Network-Area-Info-List	OctetString	
4202 Reference-Id	OctetString	
4203 Transfer-Request-Type	Unsigned32	
4204 Time-Window	Grouped	
4205 Transfer-End-Time	Time	29.154 [38]
4206 Transfer-Start-Time	Time	
4207 Transfer-Policy	Grouped	
4208 Transfer-Policy-Id	Unsigned32	
4209 Number-Of-UEs	Unsigned32	
Note: The AVP codes from 4210 to 4299 are reserved for TS 29.154.		T
4300 Communication-Failure-Information	Grouped	
4301 Cause-Type	Unsigned32	
4302 S1AP-Cause	Unsigned32	
4303 RANAP-Cause	Unsigned32	
4304 GMM-Cause	Unsigned32	
4305 SM-Cause	Unsigned32	
4306 Number-of-UE-Per-Location-Configuration	Grouped	
4307 Number-of-UE-Per-Location-Report	Grouped	
4308 UE-Count	Unsigned32	
4309 BSSGP-Cause	Unsigned32	
4310 Serving-PLMN-Rate-Control	Grouped	29.128 [36]
4311 Uplink-Rate-Limit	Unsigned32	
4312 Downlink-Rate-Limit	Unsigned32	
4313 Extended-PCO	OctetString	
4314 Connection-Action	Unsigned32	
4315 Non-IP-Data	OctetString	
4316 SCEF-Wait-Time	Time	
4317 CMR-Flags	Unsigned32	
4318 RRC-Cause-Counter	Grouped	-
4319 Counter-Value	Unsigned32	
4320 RRC-Counter-Timestamp	Time	
Note: The AVP codes from 4321 to 4399 are reserved for TS 29.128.	1	1
4400 Charging-Per-IP-CAN-Session-Indicator	Enumerated	
	Enumerated	32.299 [5]
14401 IAccess-Network-Into-Change		
4401 Access-Network-Info-Change 4402 Discoveree-UE-HPLMN-Identifier	UTF8String	02.200 [0]

4403	Discoveree-UE-VPLMN-Identifier	UTF8String	
4404	Discoverer-UE-HPLMN-Identifier	UTF8String	
4405	Discoverer-UE-VPLMN-Identifier	UTF8String	
4406	3GPP-PS-Data-Off-Status	Enumerated	
Note:	The AVP codes from 4407 to 4499 are reserved for TS 32.299		
4500	MCPTT-ID	UTF8String	
4501	Data-Identification	Grouped	
4502	Data-Identification-Prefix	Unsigned32	
4503	Data-Identification-Flags	Unsigned64	
4504	DPR-Flags	Unsigned32	
4505	DPA-Flags	Unsigned32	
4506	DUR-Flags	Unsigned32	
4507	DUA-Flags	Unsigned32	29.283 [39]
4508	NDR-Flags	Unsigned32	
4509	NDA-Flags	Unsigned32	
4510	User-Data-Id	Unsigned32	
4511	MC-Service-User-Profile-Data	Grouped	
4512	Sequence-Number	Unsigned32	
4513	MCVideo-ID	UTF8String	
	MC-Data-ID	UTF8String	
Note:	The AVP codes from 4515 to 4599 are reserved for TS 29.283.		
4600	V2X-PC5-Allowed-PLMN	Grouped	
4601	V2X-Update-Flags	Unsigned32	29.388 [40]
	V2X-Notify-Flags	Unsigned32	
Note:	The AVP codes from 4603 to 4799 are reserved for TS 29.388.		
4700	V2X-Authorization-Data	Grouped	
4701	V2X-Permission-in-VPLMN	Unsigned32	29.389 [41]
	V2X-Application-Server	Grouped	
Note:	The AVP codes from 4703 to 4799 are reserved for TS and TS 29.38	39.	

8 Experimental result codes

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

8.1 3GPP specific result codes

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

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

8.1.1 Informational

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

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

8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

Experimental Result Code	Result text	Specified in the TS
2001	DIAMETER_FIRST_REGISTRATION	
2002	DIAMETER_SUBSEQUENT_REGISTRATION]
2003	DIAMETER_UNREGISTERED_SERVICE	29.229 [2]
2004	DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED	1
2005	Deprecated value	
Note: The Experim	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.	
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]
Note: The Experim	ental Result Codes from 2022 to 2040 are reserved for the TS 29.061	
		29.109 [7]
Note: The Experim	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.	

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text		Specified in the TS			
4100	DIAMETER_USER_DATA_NOT_AVAILABLE		29.329 [4]			
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS					
Note: The Experim	ental Result Codes from 4102 to 4120 are reserved for the TS 29	9.329.				
4121	DIAMETER_ERROR_OUT_OF_RESOURCES		29.061 [13]			
	ental Result Codes from 4122 to 4140 are reserved for the TS 29	9.061.				
4141	DIAMETER_PCC_BEARER_EVENT					
4142	DIAMETER_BEARER_EVENT		29.212 [19]			
4143	DIAMETER_AN_GW_FAILED		20.212 [10]			
4144	DIAMETER_PENDING_TRANSACTION					
Note: The Experim	ental Result Codes from 4145 to 4160 are reserved for the TS 29	9.212				
			32.299 [5]			
	ental Result Codes from 4161 to 4180 are reserved for the TS 32	2.299.				
	FER_AUTHENTICATION_DATA_UNAVAILABLE		29.272 [21]			
	FER_ERROR_CAMEL_SUBSCRIPTION_PRESENT		23.272 [21]			
	ult Codes from 4182 to 4200 are reserved for the TS 29.272.					
	FER_ERROR_ABSENT_USER	2	29.173 [25]			
	ult Codes from 4202 to 4220 are reserved for the TS 29.173.					
	FER_ERROR_UNREACHABLE_USER					
	FER_ERROR_SUSPENDED_USER					
	FER_ERROR_DETACHED_USER	•	29.172 [24]			
	FER_ERROR_POSITIONING_DENIED	2	23.172 [24]			
	FER_ERROR_POSITIONING_FAILED					
4226 DIAME	FER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT					
	ult Codes from 4227 to 4240 are reserved for the TS 29.172.					
4241 DIAME						
	ult Codes from 4242 to 4260 are reserved for the TS 29.219.					
	STED_SERVICE_TEMPORARILY_NOT_AUTHORIZED	2	29.214 [18]			
Note: The Experimental Res	ult Codes from 4262 to 4280 are reserved for the TS 29.214.					

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED	
5012	DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUPPORTED	
Note: The Expe	rimental Result Codes from 5013 to 5020 are reserved for the TS	\$ 29.229.
		32.299 [5]
Note: The Expe	rimental Result Codes from 5021 to 5040 are reserved for the TS	S 32.299.
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC RIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	
Note: The Expe	rimental Result Codes from 5046 to 5060 are reserved for the TS	3 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	00 000 101
5064	DUPLICATED_AF_SESSION	29.209 [8],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.211 [17] ,
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	29.214 [18]
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
5068	TEMPORARY_NETWORK_FAILURE	
	rimental Result Codes from 5069 to 5080 are reserved for TS 29	.209, TS 29.211
	TS 29.214.	,
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	00 000 [4]
5105	DIAMETER_ERROR_TRANSPARENT_DATA	29.329 [4]
	OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	rimental Result Codes from 5109 to 5119 are reserved for the TS	S 29.329.
	5120 DIAMETED EDDOD STADT INDICATIO	

5120 DIAMETER_ERROR_START_INDICATION

5121 DIAMETER_ERROR_STOP_INDICATION

5122 DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC 29.061 [13]

DIAMETER_ERROR_SERVICE_AREA

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

5123

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

ntal Result Codes	from 5455 to 5469 are reserved for the TS 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 29.215.
5490	DIAMETER ERROR UNAUTHORIZED REQUESTING NET	•
	WORK	29.173 [25]
Note: The Expe	erimental Result Codes from 5491 to 5509 are reserved for the	TS 29.173.
5510	DIAMETER ERROR UNAUTHORIZED REQUESTING ENT	
33.3	TY	
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
5512	DIAMETER ERROR REQUESTED RANGE IS NOT	
00.2	ALLOWED	
5513	DIAMETER ERROR CONFIGURATION EVENT STORAGE	29.336 [28]
00.0	_NOT_SUCCESSFUL	·
5514	DIAMETER ERROR CONFIGURATION EVENT NON EXIS	-
0011	TANT	1
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	╡
	erimental Result Codes from 5516 to 5529 are reserved for the	TS 20 336
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	10 29.000.
5531	DIAMETER ERROR SC CONGESTION	┥
	DIAMETER_ERROR_SM_PROTOCOL	\dashv
5532		29.337 [29]
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	-
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	_
5535	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING	
	erimental Result Codes from 5536 to 5549 are reserved for the	15 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	
Note: The Expe	erimental Result Codes from 5559 to 5569 are reserved for the	TS 29.338.
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
Note: The	Experimental Result Codes from 5571 to 5589 are reserved for	r the TS 29.219.
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	1
5592	DIAMETER_ERROR_PFID_UNKNOWN	1
5593	DIAMETER ERROR APP REGISTER REJECT	7
5594	DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOW	
	D	
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	7
5596	DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN	29.343 [32]
5597	DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_S	
0001	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	┥
3002	DIAMETER_LINON_INVALID_AFFLICATION_DATA	

Note: The Experimental Result Codes from 5603 to 5609 are reserved for the TS 29.343. 5610 DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION 5611 DIAMETER_ERROR_PROSE_NOT_ALLOWED 5612 DIAMETER_ERROR_UE_LOCATION_UNKNOWN Note: The Experimental Result Codes from 5613 to 5629 are reserved for the TS 29.344. 5630 DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER 5631 DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN 5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_PROXIMITY_REJECTED 5636 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_INVALID_TARGET_POUID 5637 DIAMETER_ERROR_INVALID_TARGET_POUID 5639 DIAMETER_ERROR_INVALID_TARGET_POUID 5640 DIAMETER_ERROR_INVALID_TARGET_POUID 5640 DIAMETER_ERROR_INVALID_TARGET_REAUID 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_INVALID_EPS_BEARER 5651 DIAMETER_ERROR_NO_DESTED_LOCATION_NOT_SERV_ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_INVALID_EPS_BEARER 5650 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE S663 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL_E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_UNKNOWN_DATA 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.388 [40]	-		
5611 DIAMETER_ERROR_PROSE_NOT_ALLOWED 5612 DIAMETER_ERROR_UE_LOCATION_UNKNOWN Note: The Experimental Result Codes from 5613 to 5629 are reserved for the TS 29.344. 5630 DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER 5631 DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN 5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_INVALID_TARGET_RESTRICTED_CODE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_INVALID_EPS_BEARER 5654 DIAMETER_ERROR_INVALID_EPS_BEARER 5655 DIAMETER_ERROR_INVALID_EPS_BEARER 5650 DIAMETER_ERROR_INVALID_EPS_BEARER 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_INVALID_EPS_BEARER 5654 DIAMETER_ERROR_INVALID_EPS_BEARER 5655 DIAMETER_ERROR_INVALID_EPS_BEARER 5656 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.283 [39] Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128.	Note: The Expe		3 29.343.
Note: The Experimental Result Codes from 5613 to 5629 are reserved for the TS 29.344. 5630 DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER 5631 DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN 5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5635 DIAMETER_ERROR_NO_PROXIMITY_REJECTED 5636 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_INVALID_TARGET_RESTRICTED_CODE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_INVALID_EPS_BEARER 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_INVALID_EPS_BEARER 5654 DIAMETER_ERROR_INVALID_EPS_BEARER 5655 DIAMETER_ERROR_INVALID_EPS_BEARER 5650 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION			
Note: The Experimental Result Codes from 5613 to 5629 are reserved for the TS 29.344. 5630 DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER 5631 DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN 5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_NO_PROXIMITY_CANCELLED 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_PDUID 5640 DIAMETER_ERROR_INVALID_TARGET_RESTRICTED_CO DE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_SERV_ED 5651 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE S652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNKOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION	5611	DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]
DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER 5631 DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN 5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_INVALID_EPS_BEARER 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.388 [40]			
ER 5631 DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN 5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_PDUID 5640 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_INVALID_EPS_BEARER 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_INVALID_EPS_BEARER 5654 DIAMETER_ERROR_INVALID_EPS_BEARER 5655 DIAMETER_ERROR_INVALID_EPS_BEARER 5650 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 20.338 [40]	Note: The Expe	erimental Result Codes from 5613 to 5629 are reserved for the TS	3 29.344.
LMN	5630		
DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	5631		
DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	5632	DIAMETER ERROR INVALID APPLICATION CODE	
5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_INVALID_EPS_BEARER 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_INVALID_EPS_BEARER 5650 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNKOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.388 [40]	5633		
DIAMETER_ERROR_NO_PROXIMITY_REQUEST 29.345 [34] 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV_ED ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA 29.128 [36] BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E 5670 DIAMETER_ERROR_UNKNKOWN_DATA 29.283 [39] Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.388 [40]	5634		
5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV_ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNKOWN_DATA 29.283 [39] Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.388 [40]	5635		00 0 45 50 43
DIAMETER_ERROR_INVALID_TARGET_PDUID	5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_	29.345 [34]
DIAMETER_ERROR_INVALID_TARGET_RPAUID	5637	DIAMETER_ERROR_PROXIMITY_CANCELLED	
5640 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO DE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNKOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.388 [40]			
5640 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO DE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNKOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.388 [40]	5639	DIAMETER ERROR INVALID TARGET RPAUID	
Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNKOWN_DATA 29.283 [39] 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.388 [40]		DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO	
5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNKOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.388 [40]	5641	DIAMETER_ERROR_INVALID_DISCOVERY_TYPE	
ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNKOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.388 [40]	Note: The Expe	erimental Result Codes from 5642 to 5649 are reserved for the TS	3 29.345.
5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNKOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.128 [36]	5650		
BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNKOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.388 [40]	5651	DIAMETER_ERROR_INVALID_EPS_BEARER	
Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670	5652		29.128 [36]
5670 DIAMETER_ERROR_UNKNKOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.388 [40]	5653		
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5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.283 [39] 29.283 [39]			
Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.388 [40]	5671	DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	29.283 [39]
5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 20 388 [40]	Note: The Expe		3 29.128.
5691 DIAMETER_ERROR_V2X_NOT_ALLOWED 5600 [10]	5691	DIAMETER_ERROR_V2X_NOT_ALLOWED	29.388 [40]
Note: The Experimental Result Codes from 5692 to 5709 are reserved for the TS 29.388.	Note: The Expe	erimental Result Codes from 5692 to 5709 are reserved for the TS	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

					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		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		1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26	NP-040579			Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12	CN#26		007	1	Reservation of command code 310	6.1.0	6.2.0
2004-12	CN#26		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
2004.40	CN1#00	ND 040570	044		of Ro for Re on the Charging Interfaces	040	0.00
2004-12	CN#26		011		Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26		012	4	Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047 NP-050039	040	1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
			043		Allocations for Gx interface		
		NP-050039	045		Allocations for Gmb interface		
2005-06	CT#28				Allocations for MMS, MM10 Interface	6.3.0	6.4.0
2005-06	C1#20	CP-050088 CP-050196		1	Gx interface allocation correction Addition of Maximum-Number-Accesses AVP	6.3.0	6.4.0
2005.00	CT#29			1		6.4.0	6.5.0
2005-09	C1#29	CP-050440 CP-050310		1	Private identities on the Cx Addition of Pr reference point to TS 29.230	6.4.0	6.5.0
		CP-050310			Error code cleanup		
		CP-050310	0054		Addition of Rx ref. point and renaming of Experimental Result		
		CP-050310	0056		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
		CP-050612	0063		Additional Gmb AVP Allocation	1	
		CP-050612	0065		Reservation of AVP codes for 32.299	1	
		CP-050625	0066		Management of Sh subscriptions	1	
2006-03	CT#31	CP-060073	0069		Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
		CP-060084	0071		User-Data in the response to Sh-Subs-Notif	1	
		CP-060084	0072	1	New error indications for the Sh-Subs-Notif procedure	1	
2006-06	CT#32	CP-060302	0075		S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417	0077	3	New AVP Code	7.3.0	7.4.0
		CP-060417	0800		Errors to be sent in response to Sh-Notif		
		CP-060417	0081		Definition of specific Diameter codes for DSAI		
2006-12	CT#34		0085	1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
		CP-060562			Addition of Diameter Error Code for Emergency Purposes		
		CP-060555			Allocation of new AVP codes for Gmb		
		CP-060555			AVP code allocations for Rf and Ro interfaces		
		CP-060566			Allocation of Success Result Code Range for Gi Interface		
2007-03	CT#35	CP-070020			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			Allocation of Experimental-Result-Code AVP for Gi Interface		
2007-06	CT#36	CP-070318			Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312			Experimental-Result-Codes for Gmb interface		
		CP-070312			Correction of Diameter AVP code allocation		
2007-09	CT#37	CP-070527			Application ID for Gx protocol	7.7.0	7.8.0
2007-12	CT#38	CP-070743			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	CD 070755	0101	1	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
2001-12	01#30	CP-070755	0101	4	AVP code reservation for 32.299 in Rel-8	7.9.0	0.0.0
2008-03	CT#39	CP-080015			Correction of reference to TS 29.140	8.0.0	8.1.0
2006-03	C1#39	CP-080019				0.0.0	0.1.0
		CP-080019			AVP code reservation for TS 32.299 in Rel-8 Wildcarded Public User Identities	1	
		CP-080019	0107	1	Correction on AVP code allocation reservation for TS 32.299 in	1	
		01 .000191	0112	'	Rel-7		
		CP-080204	0113	1	Correction on AVP code allocation reservation for TS 32.299	1	
2008-06	CT#40	CP-080267			A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-09	CT#41	CP-080456			Emergency Public User Identity Removal	8.2.0	8.3.0
2008-09	CT#41		0121		Support of "Loose-Route" indication from HSS	1 = . 5	
2000-03				1	1 11	4	1
2008-09	CT#41	CP-080460	0122	1	STaMIP Application Id		
		CP-080460 CP-080463	0122 0123	1	STaMIP Application Id Cx Impacts of IMS Restoration Procedures (New AVP Codes		

2008-09 2008-12	CT#41 CT#42	CP-080463 CP-080691	0124		New AVP Code Assignment for Forking Service Restoration	8.2.0 8.3.0	8.3.0 8.4.0
	CT#42				Diameter Protocol Codes Assignments for S6a/S6d/S13		
2008-12		CP-080691 CP-090044	0128		Diameter code assignments for 3GPP TS 29.273	8.3.0 8.4.0	8.4.0 8.5.0
2009-03 2009-03	CT#43			1	Update for ReadyForSM		
	CT#43 CT#43	CP-090044 CP-090026		1	Handling LCS Subscription Data	8.4.0	8.5.0 8.5.0
2009-03					Update for Restoration	8.4.0	
2009-03	CT#43	CP-090024		0	Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033			Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43			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 application	8.4.0	8.5.0
2009-03	CT#43	CP-090024			AVPs for TS 29.273	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299		4	Update of the AVP Codes	8.5.0	8.6.0
		CP-090299			AVP code reservation for TS 32.299	4	
		CP-090299	0145		Diameter Command Codes for S6a/S6d/S13/S13'	4	
		00.0000	0146		Removal of Requesting Node Type from AIR		
					S6b Application ID		
2009-09	CT#45		0149		Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
		CP-090530			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	0154	1	ICS-Flag	9.0.0	9.1.0
		CP-091032	0156		From GMLC-Address to GMLC-Number]	
			0160		Session-Priority AVP	1	
			0163	2	Introduction of SLh application related AVPs and Experimental		
					Result codes		
			0166		Missing AVP error codes		
		CP-090797	0167	1	Introduction of SLg application related AVPs and Application		
					Identifier		
2010-03	CT#47	CP-100031	0158		Wildcarded Public Identity	9.1.0	9.2.0
		CP-100034	0168	1	Correction on AVP code allocation reservation for TS 32.299 in		
		00 100010			Rel-9	4	
		CP-100046		1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109	4	
		CP-100046			Error codes in 29.172 for SLg		
		CP-100048	0174	1	AVPs in 29.272 for TADS support	4	
		CP-100040			Error codes in 29.272 for Unknown MME	-	
		CP-100236		4	EPS Subcsriber State and Location Information Request	-	
		CP-100033			One time notification AVP allocation	-	
		CP-100046 CP-100175	0182		Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface	-	
2010-06	CT#48	CP-100173	0188	1	AVP Codes for PCC	9.2.0	9.3.0
2010-00	C1#40	CF-100203	0183	-	EPS state and location retrieval	9.2.0	9.3.0
		CP-100287			SGmb Application ID		
		CP-100207	0190	1	New APVs in S6a protocol	+	
2010-09	CT#49	CP-100463	0197		Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.0
_010 03	J : π→3	01 100403	0131	Ι'	interfaces	0.0.0	5.7.0
		CP-100464	0196	1	AVP Codes Allocation for PCC	1	
2010-09	CT#49	CP-100465		1	SIPTO Permission Indicator	9.4.0	10.0.0
_5.5 00		CP-100466			Location data including only serving node address	1	. 5.5.0
		CP-100466			AVP for Update-Eff feature	1	
2010-12	CT#50	CP-100699	0205		Enhanced SRVCC Subscriber Data	10.0.0	10.1.0
	1 3	CP-100687	0201	1	Allocate codes for AVPs on eMPS	1	
		CP-100683			Allocate codes for AVPs on LIPA	1	
		CP-100688		1	Periodic TAU/RAU timer in HSS subscription	1	
		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	1	
		CP-110087	0207	2	Minimization of Drive Tests (MDT)	1	
		CP-110088	0209		Relay Node Indicator AVPs		L
2011-06	CT#52	CP-110349	0219		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	0216		MDT user consent		
		CP-110370	0223		AVP Code Allocation for Pre-paging		
		CP-110375	0227	1	PUR-Flags AVP		L
		CP-110559		1	AVP code alignment with 29.212	10.3.0	10.4.0
2011-09	CT#53	CI - I 10000	0230			-	
2011-09	CT#53	CP-110555			AVP code alignment with 32.299		
2011-09	CT#53		0239	1	AVP code alignment with 29.214		
2011-09	CT#53	CP-110555	0239 0244	1			

I	1	CP-110722	0257	2	Priviledged sender	٦	1
2011-09	CT#53	CP-110722			Add vSRVCC updates to the Diameter AVP code table	10.4.0	11.0.0
2011 00	01,100	CP-110579			AVP code alignment with 32.299	10.1.0	11.0.0
		CP-110555			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			New AVP codes for MBMS IP multicast encapsulation	4	
			0271	1	MME-Realm AVP code allocation	4	
		CP-110811	0277	1	Equivalent PLMN CSG Subscription Request Restoration of Wildcarded-IMPU AVP	-	
2012-03	CT#55	CP-110781 CP-120025	0286	1	Codes Allocation for AVPs on Initial Attach	11 1 0	11.2.0
2012-03	C1#33	CP-120023	0288	1	New AVP codes for Absolute Time of MBMS Data Transfer over	11.1.0	11.2.0
		01 120030	0200		SGmb		
		CP-120038	0291	1	Allocating Diameter AVP codes for TS 29.219 and TS 29.212		
2012-06	CT#56	CP-120240			Codes Allocation for AVPs on NPLI	11.2.0	11.3.0
		CP-120238	0294	1	Adding new Diameter AVPs to Diameter table to support Trusted		
					WLAN Access feature		
		CP-120225	0296		Trust Relationship Indication		
		CP-120251		1	Corrections to reference titles	4	
		CP-120251		1	Diameter Code Allocation for TS 29.219	_	
		CP-120247		-	Network Name AVP codes	4	
0040.00	OT#57	CP-120219		-	Duplicated AVP names	44.0.0	44.40
2012-09	CT#57	CP-120481 CP-120473	0289		PS additional number allocation SMS in MME/SGSN	11.3.0	11.4.0
		CP-120473 CP-120461			AAA Failure Recovery AVP codes	+	
		CP-120401		_	Transport Access Type AVP for BBAI		
		CP-120480		1	Local Time Zone	-	
		CP-120472	0308	-	Allocating Application Identifier and command code for Tsp	1	
					interface		
		CP-120472	0309	-	Application Identifier, Command Codes and AVP range for S6m		
					interface		
		CP-120667	0312		GMLC-Name		
			0313		Reference list correction to align with the corrected TS 29.212 title		
2012-12	CT#58	CP-120731			T4 device triggering via IMS	11.4.0	11.5.0
		CP-120731	0318		Codes and Identifier Allocation for T4 Specification	-	
		CP-120731 CP-120731	0324 0329	-	AVP Code Allocation for 29.336 Diameter AVP code value allocation in TS 29.368	-	
		CP-120731 CP-120732	0329	2	Application Identifier, Command Codes and AVP codes for SGd,	-	
		01 - 1207 32	0313	_	S6c		
		CP-120716	0324	1	AVP name modification in TS 32.299	1	
		CP-120742		-	UE Time Zone AVP		
		CP-120741		1	Use of Flag instead of Enumerated AVPs	1	
		CP-120741	332	-	Use of Flag instead of Enumerated AVPs		
		CP-120743		-	PSI direct routing with restoration procedures		
		CP-120743		-	EPS LocationInformation Support		
2013-03	CT#59	CP-130026		1	Diameter error code for TS 29.219	11.5.0	11.6.0
	0===	CP-130026		-	MDT parameters		
2013-03	CT#59	CP-130156		1	New AVPs for Lgd interface	11.6.0	12.0.0
2042.00	CT#60	CP-130030 CP-130288		-	Validity Time of Short Message	40.00	12.1.0
2013-06	C1#60	CP-130288			Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219	12.0.0	12.1.0
		CP-130290		-	Diameter AVP codes for new TS 32.299 AVPs	-	
		CP-130279		1	Definition of SS Status for Call Barring	-	
		CP-130380			New SGs-MME-Identity AVP	†	
		CP-130291	0348		New AVPs for deferred MT-LR and periodic MO-LR TTTP	1	
					procedures over Lgd interface		
		CP-130297	0347	1	Application Port Identifier		
		CP-130374			MTRR on Sh		
		CP-130295		_	Restoration Priority during SGW and PGW restoration procedures	1	
	0=::-	CP-130378			SIPTO permission for Local Network enhancements	15.	
2013-09	CT#61	CP-130454			New MBMS flag for eMBMS restoration	12.1.0	12.2.0
		CP-130461	0366	-	AVP code reservation for TS 32.299 Rel-12	-	
2012.00		CP-130460	0368	-	Allocation of Diameter codes and identifiers for 29.212 and 29.215	12.2.0	12 2 4
2013-09				-	Vendor-specific command code for Trigger-Establishment- Request/Answer corrected	12.2.0	12.2.1
2013-12	CT#62	CP-130624	0360	-	New AVP for optimized LCS procedure for combined MME/SGSN	12 2 1	12.3.0
2010-12	01#02	CP-130624 CP-130631			Adding E-SMLC provided Cell info and Cell Portion	'2.2.	12.3.0
		CP-130800		<u>'</u>	New AVPs for SMS for IMS UE without MSISDN in TS 29.338	†	
		CP-130600		1	Allocation of Diameter codes for 32.299	†	
		CP-130605		<u>-</u>	Allocation of Diameter codes for 29.212	1	
	1	CP-130639		-	SGSN CAMEL Subscription Indication	1	
							40.40
2014-03	CT#63	CP-140180	0381	2	Protocol enhancements for the support of device replace procedure	12.3.0	12.4.0
2014-03	CT#63		0381 0384	2	Protocol enhancements for the support of device replace procedure New AVP for the support of combined MME/SGSN	12.3.0	12.4.0

2014-06	CT#64	CP-140211	0385	1	Protocol enhancements to indicate support of device recall and replace by SMS-SC	12.4.0	12.5.0
		CP-140251	0402	1	AVP allocation for Error handling, MTC error diagnostic	1	
		CP-140257			SS-Status AVP Definition	1	
		CP-140252			Definition of AVPs for Network Location in TWLAN]	
		CP-140236			TWAN-BSSID AVP re-naming	<u> </u>	
		CP-140247			New AVPs for Trusted WLAN access	4	
2014-09	CT#65	CP-140231 CP-140515			Adding Codes for 29.214 T-GRUU restoration	12.5.0	1261
2014-09	01#03	CP-140515			MB2-C codes	12.3.0	12.0.
		CP-140505			New AVPs for Trusted WLAN access	1	
		CP-140506			P-CSCF Restoration indication	1	
	İ	CP-140516			Closing TS 29.234 and reused AVP in TS 29.273	j	
		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
	Ì		0430		New Diagnostic-Info AVP for MBMS restoration	1	
			0410		WLCP key for WLCP signalling protection]	
			0411		Reset-ID	1	
			0416		Code definitions for 32.299	4	
			0428		Removal of I-WLAN AVPs	4	
			0429 0433		Reference correction Code allocation for 29.212	1	
			0433		MDT PLMN List	1	
			0418		Codes Allocation for PC2 Protocol	†	
			0423		Codes Allocation for PC4a Protoco	1	
			0431		Allocation of values for Application ID, Command codes, AVP	Ī	
					codes and Experimental-Result codes used in the TS 29.345	<u> </u>	
			0434	1	Command Code and Error Code for ProSe Initial Location		
			0.405		Information Retrieval	4	
	ŀ		0425 0426		Corrections of the type of some AVPs	┨	
			0426		OFR-Flags AVP code P-CSCF Restoration mechanism new error	┨	
2015-03	CT#67	CP-150015	0447		Renaming of Location-Type AVP	12.7.0	12.8
2010 00	01,1101	01 100010	0437		Location reporting in emergency 1xSRVCC	1.2.7.0	12.0.
			0435		AVP codes for GCSE MB2-C	1	
			0442		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		
	ļ		0.4.40	_	29.344)	1	
			0440	_	Location Update Trigger	4	
	ŀ		0441 0443		AVP codes allocation for Validity related AVPs for TS 29.345 Allocation of codes for the Integrity Checks. Aspect AVPs	1	
2015-03	CT#67	CP-150039			Diameter Application Identifier for Np protocol	12.8.0	13.0
2015-06	CT#68	CP-150257			AVP code allocation for Match Refresh Timer AVP in TS 29.345	13.0.0	
		CP-150247			Wrong CR implementation of CR 0416r1	1	
		CP-150249	0459	1	AVP code allocation for 32.299]	
		CP-150263			AVP codes for Access Restriction Data per PLMN	1	
	07::00	CP-150372			IP-SM-GW-Realm	10.10	10.0
2015-09	CT#69	CP-150454			Subscription data for extended buffering at the SGW	13.1.0	13.2.0
		CP-150442 CP-150453			Overlapping transaction over S6b Addition of IMSI Group Id AVP definition	4	
		CP-150453 CP-150449			Addition of CP parameter AVP definition	┨	
		CP-150431			AVP codes for TS 29.212	1	
	ŀ				AVP definiton for S6t	1	
		TCP-150456	U41				13.3.
2015-12	CT#70	CP-150456 CP-150761			Addition of MBMS-Cell-List AVP	13.2.0	
2015-12	CT#70	CP-150761 CP-150778	0473 0474	-	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778	0473 0474 0474	- - 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778	0473 0474 0474 0490	- - 1 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778	0473 0474 0474 0490	- - 1 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778	0473 0474 0474 0490 0491	- - 1 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778	0473 0474 0474 0490 0491	- - 1 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778	0473 0474 0474 0490 0491	- - 1 1 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE)	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778	0473 0474 0474 0490 0491 0494	- - 1 1 1 2	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150770	0473 0474 0474 0490 0491 0494 0501 0502 0475	- - 1 1 1 2 1 2	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778	0473 0474 0474 0490 0491 0494 0501 0502 0475	- - 1 1 1 2 1 2	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not	13.2.0	
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2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776	0473 0474 0474 0490 0491 0494 0501 0502 0475 0476	- - 1 1 1 2 1 2 1 -	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776	0473 0474 0474 0490 0491 0494 0501 0502 0475 0476	- - 1 1 1 2 1 2 1 -	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776 CP-150776 CP-150776 CP-150776	0473 0474 0474 0490 0491 0494 0501 0502 0475 0476 0497	- - 1 1 1 2 1 2 1 - 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX - Additional Option	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776	0473 0474 0474 0490 0491 0501 0502 0475 0476 0497 0498	- - 1 1 1 2 1 2 1 - 1 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX	13.2.0	

CP-150754 0481 Allowed WAF and/or WWSF Identities CP-150781 0482 AdV pode allocation for "UE Usage Type" CP-150781 0484 AVP pode allocation for "UE Usage Type" CP-150755 0485 Macroard Type To ProSp direct discovery procedures CP-150755 0485 New Group AVP for ProSp direct discovery procedures CP-150756 0485 New Group AVP for ProSp direct discovery procedures CP-150756 0485 New Group AVP for ProSp direct discovery procedures CP-150776 0495 AVP podes for Indoor Positioning support in SLigLgd CP-160041 0506 AVP podes for Indoor Positioning support in SLigLgd CP-160041 0506 AVP podes for Indoor Positioning support in SLigLgd CP-160041 0506 AVP podes for Indoor Positioning support in SLigLgd CP-160041 0506 AVP podes reservation for 32 299 CP-160041 0516 AVP podes for Indoor Positioning support in SLigLgd CP-160041 0516 AVP podes for Indoor Positioning support in SLigLgd CP-160041 0516 AVP podes for Indoor Positioning support in SLigLgd CP-160041 0516 AVP podes for Indoor Positioning Support in SLigLgd CP-160029 0505 AVP podes for Indoor Positioning Support in SLigLgd CP-160029 0505 AVP podes for Indoor Positioning Support in SLigLgd CP-160029 0505 AVP podes for Indoor Positioning Support Indoor Indoor Positioning Support Indoor Indoor Positioning Support Indoor Indoor Indoor Positioning Support Indoor	1	İ	lop				1	1
CP-160773 0481 AV Doce allocation for "UL Usage Type"						Addition of AVP used in match report procedure for eProSe-Ext-CT		
CP-150781 0484 1. AVP code allocation for *UE Usage Type* CP-150785 0488 New Group AVP for ProSe direct discovery procedures CP-150785 0488 New Group AVP for ProSe direct discovery procedures CP-150771 04981 1. AVP code as not AVP range for TS 29 ;154 and TS 29;153 CP-150771 04981 1. AVP codes and AVP range for TS 29;154 and TS 29;153 CP-150771 04981 1. AVP codes for indoor proteining support in SLig*Lgd CP-160041 05031 ASPECTATION CP-160041 05032 ASPECTATION CP-160041 05032 ASPECTATION CP-160041 05012 ASPECTATION CP-160041 05141 CAP code reservation for \$32.299 CP-160041 05141 CAP code reservation for \$32.299 CP-160041 05181 CAP code reservation for \$32.299 CP-160039 05090 Change of type of Montioning-Duration AVP to represent an absolute time CP-160039 05090 Change of type of Montioning-Duration AVP to represent an absolute time CP-160039 05091 Change of type of Montioning-Duration AVP to represent an absolute time CP-160039 05013					1			
CP-160755 0488 New Toropa WTV Pro TroSe direct discovery procedures					1			
CP-160755 0488 New Group AVP for ProSe direct discovery procedures CP-150771 0496 1 AVP codes and AVP range for TS 29.154 and TS 29.153					-			
CP-150771 G946 1 Command codes and AVP range for TS 29.154 and TS 29.153 CP-150776 G945 1 AVP codes for Indoor Positioning support in SLg/Lgd 13.3.0 13.4.0 CP-160041					-			
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CFF10			CP-150771	0496	1	Command codes and AVP range for TS 29.154 and TS 29.153		
CP-160041 O510 A VP3 for the Rx Dismeter application					1			
CP-160041 OF-160-1 OF-160-2 OF-160041 OF-160041 OF-160041 OF-160041 OF-160041 OF-160041 OF-160041 OF-160041 OF-160042 OF-160	2016-03	CT#71			-		13.3.0	13.4.0
CP-160041 0514 2								
CP-160029 0505 3 New AVP assignment for MONTE								
CP-160029 G505 CAmpa of type of Monitoring-Duration AVP to represent an absolute time CP-160035 G507 Remove the default access AVP CP-160035 G506 Specific AVP codes for NBIFOM CP-160035 G507 Remove the default access AVP CP-160036 G507 Remove the default access AVP CP-160036 G507 CP-160037 G512 PDG retrieval of WLAN Location Information CP-160033 G512 Definition of AVP Authorization of NIDD CP-160033 G512 Definition of AVP Authorization of NIDD CP-160033 G512 Definition of AVP Authorization of NIDD CP-160036 G519 Allocation of new Diameter Application ID and commands code for PC2 protocol CP-160036 G519 Allocation of new Diameter Application ID and commands code for PC2 protocol CP-160036 G515 AVP code reservation for 32.299 13.4.0 14.0.0 14.1.0 2016-06 CT#72 CP-160036 G555 Command Codes for 29.212 14.0.0 14.1.0 2016-06 CT#72 CP-160036 G555 AVP codes for 29.343 14.0.0 14.1.0 2016-06 CT#72 CP-1600326 G565 AVP codes for 29.343 14.0.0 14.1.0 2016-06 CT#72 CP-1600320 G565 AVP codes for 29.343 14.0.0 14.1.0 2016-06 CT#72 CP-1600320 G565 AVP codes for 29.343 14.0.0 14.1.0 2016-06 CT#72 CP-1600320 G565 AVP codes for 29.343 14.0.0 14.1.0 2016-06 CT#72 CP-1600320 G565 AVP codes for 29.343 14.0.0 14.1.0 2016-06 CT#72 CP-1600320 G565 AVP codes for 29.343 14.0.0 14.1.0 2016-06 CT#72 CP-1600320 G565 AVP codes for 29.343 14.0.0 14.1.0 2016-06 CT#72 CP-1600320 G565 AVP codes for 29.343 14.0.0 14.1.0 2016-06 CT#72 CP-1600230 G565 AVP codes for 29.343 14.0.0 14.1.0 2016-06 CT#72 CP-1600230 G565 AVP codes for 29.345 AVP codes for 29.345 AVP codes for 29.343 14.0.0 14.1.0 14.0.0 14.1.0 14.0.0 14.1.0 14.0.0 14.1.0 14.0.0 14.1.0 14.0.0 14.0.0 14.0.0 14.0.0 14.0.0 14.0.0 14.0.0 14.0.0 14.0.0 14.0.0 14.0.0 14.0.0 14.0.0 14.0.0 14.0.0 14.								
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CP-160033 0513 2 Delimition of AVP Authorization of NIDD CP-160038 0520 2. New PDN-Type for Cellular IoT CP-160036 0517 1 Monitoring update and Reporting of update result CP-160036 0519 3 Allocation of new Diameter Application ID and commands code for PC2 protocol CT#72 CP-160036 0526 1 AVP code reservation for 32.299 13.4.0 14.0.0 14.1.0 2016-06 CT#72 CP-160236 0526 1 AVP code reservation for 32.299 14.0.0 14.1.0								
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PC2 protocol						Monitoring update and Reporting of update result		
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2016-06 CT#72 CP-160232 0533 3 Addition of new AVPs for ProSe direct discovery security and open 14.0.0 14.1.0 2016-06 CT#72 CP-160232 0540 - Reserved Experimental Result Codes for TS 29.343 14.0.0 14.1.0								
ProSe direct discovery with application-controlled extension								
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Doint	2016-06	CT#72	CP-160232	0540	-	Reserved Experimental Result Codes for TS 29.343	14.0.0	14.1.0
2016-06 CT#72 CP-160228 0531	2016-06	CT#72	CP-160232	0549	-		14.0.0	14.1.0
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	2017-03	CT#75				New AVP for UE-PC5-AMBR		

2017-03	CT#75	CP-170043	0603	1	Correct Diameter Result Code Allocated for V2X	14.3.0	14.4.0
2017-03	CT#75	CP-170049	0601	1	AVPs for ERP in 29.273	14.3.0	14.4.0
2017-03	CT#75	CP-170052	0605		Update of the name of MCPTT-User-Profile-Data AVP	14.3.0	14.4.0
2017-03	CT#75	CP-170045	0606	-	Support of MCVideo and MCData Services	14.3.0	14.4.0

History

Document history						
V14.4.0	May 2017	Publication				