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Foreword

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1 Scope

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

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

2 References

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

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

Diameter protocol; Stage 3".

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

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

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

3 Definitions and abbreviations

3.1 Definitions

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

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

3.2 Abbreviations

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

AVP Attribute-Value-Pair CR Change Request

IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

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

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

4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

Application identifier	Application	3GPP TS
16777216	3GPP Cx/Px	29.228 [1] and 29.229 [2]
16777217	3GPP Sh/Ph	29.328 [3] and 29.329 [4]
16777218	3GPP Re	32.296 [14]
16777219	3GPP Wx	29.234 [6]
16777220	3GPP Zn	29.109 [7]
16777221	3GPP Zh	29.109 [7]
16777222	3GPP Gq	29.209 [8]
16777223	3GPP Gmb	29.061 [13]
16777224	3GPP Gx	29.210 [15]
16777225	3GPP Gx over Gy	29.210 [15]
16777226	3GPP MM10	29.140 [16]
16777229	3GPP Rx	29.211 [17]
16777230	3GPP Pr	29.234 [6]
16777236	3GPP Rx	29.214 [18]
16777238	3GPP Gx	29.212 [19]
16777250	3GPP STa	29.273 [20]
16777251	3GPP S6a	29.272 [21]
16777252	3GPP S13/S13'	29.272 [21]
16777255	3GPP SLg	29.172 [24]
16777264	3GPP SWm	29.273 [20]
16777265	3GPP SWx	29.273 [20]
16777266	3GPP Gxx	29.212 [19]
16777267	3GPP S9	29.215 [22]
16777268	3GPP Zpn	29.109 [7]
16777272	3GPP S6b	29.273 [20]
16777291	3GPP SLh	29.173 [25]
16777292	3GPP SGmb	29.061 [13]
16777302	3GPP Sy	29.219 [26]
16777303	3GPP Sd	29.212 [19]
16777308	3GPP S7a	29.272 [21]
16777309	3GPP Tsp	29.368 [27]
16777310	3GPP S6m	29.336 [28]
16777311	3GPP T4	29.337 [29]
16777312	3GPP S6c	29.338 [30]
16777313	3GPP SGd	29.338 [30]
16777318	3GPP S15	29.212 [19]
16777319	3GPP S9a	29.215 [22]
16777320	3GPP S9a*	29.215 [22]
16777335	3GPP MB2-C	29.468 [31]
16777336	3GPP PC4a	29.344 [33]
16777337	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]
16777055	Management	20.200.[40]
16777355	3GPP V4	29.388 [40]
16777356	3GPP V6	29.389 [41]
16777358	3GPP Nta	29.154 [38]

5 Command codes

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

5.1 Command codes allocated for 3GPP

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

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

Command code value	Command name	Abbreviation		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	7							
303	Multimedia-Auth-Request/-Answer	swer MAR/MAA 29.229 [2]		9.229 [2]						
304	Registration-Termination-Request/-	RTR/RTA					į			
	Answer									
305	Push-Profile-Request/-Answer	PPR/PPA								
306	User-Data-Request/-Answer	UDR/UDA								
307	Profile-Update-Request/-Answer	PUR/PUA	20	9.329 [4]						
308	Subscribe-Notifications-Request/-Answer	SNR/SNA	۷.	9.329 [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/MI	PA	29.14				
	312 GBAPush-Info-Req	uest/Answer		GPR/G	PI	29.10				

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

Table 5.1/2: Command codes allocated for 3GPP

Command code value	Command name	Abbreviation	Specified in 3GPP TS
313	<u>- </u>		

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	00 040 [40]	
8388731	TSSF-Notification-Request/Answer	TNR/TNA	29.212 [19]	
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	00.070.041	
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	00 400 [04]	
8388663	GCS-Notification-Request/Answer	GNR/GNA	29.468 [31]	
8388664	ProSe-Subscriber-Information- Request/Answer	PIR/PIA		
8388665	Update-ProSe-Subscriber-Data- Request/Answer	UPR/UPA		
8388666	ProSe-Notify-Request/Answer	PNR/PNA	29.344 [33]	
8388713	ProSe-Initial-Location-Information- Request/Answer	PSR/PSA		
8388668	ProSe-Authorization-Request/Answer	PAR/PAA		
8388669	ProSe-Discovery-Request/Answer	PDR/PDA	29.345 [34]	
8388670	ProSe-Match-Request/Answer	PMR/PMA		

8388671	ProSe-Match-Report-Info- Request/Answer	PIR/PIA	
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	-
8388674	ProSe-Alert-Request/Answer	ALR/ALA	-
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	-
8388676	ProXimity-Action-Request/Answer	PXR/PXA	
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	
8388725	Network-Status-Continuous-Report- Request/Answer	NCR/NCA	29.153 [37]
8388723	Background-Data-Transfer- Request/Answer	BTR/BTA	29.154 [38]
8388728	Data-Pull-Request/Answer	DPR/DPA	
8388729	Data-Update-Request/Answer	DUR/DUA	29.283 [39]
8388730	Notification-Data-Request/Answer	NDR/NDA	-
8388732	Connection-Management- Request/Answer	CMR/CMA	
8388733	MO-Data-Request/Answer	ODR/ODA	29.128 [36]
8388734	MT-Data-Request/Answer	TDR/TDA	-
8388735	Event-Configuration-Request/Answer	ECR/ECA	
8388736	Event-Reporting-Request/Answer	ERR/ERA	29.154 [38]

6 Vendor identifier

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

6.1 3GPP's vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
	3GPP-WLAN-APN-Id	OctetString	
_	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
	3GPP-WLAN-QoS-Filter-Support	OctetString	
Attribu	The AVP codes from 1 to 255 are reserved for backwards coutes (See 3GPP TS 29.061 [13], 3GPP TS 29.561 [42] and 30		r Specific
	The AVP codes from 256 to 299 are reserved for future use.	Figure a rate of	
	Authentication-Method Authentication-Information-SIM	Enumerated OctetString	
	Authorization -Information-SIM	OctetString	
	WLAN-User-Data	Grouped	
	Charging-Data	Grouped	
	WLAN-Access	Enumerated	
306	WLAN- 3GPP-IP-Access	Enumerated	
	APN-Authorized	Grouped	
	APN-Id		
	APN-Barring-Type	Enumerated	29.234 [6]
	WLAN-Direct-IP-Access	Enumerated	
	Session-Request-Type	Enumerated	
	Routing-Policy Max-Requested-Bandwidth	IPFilterRule OctetString	
	Max-Requested-Bandwidth Charging-Characteristics	Integer	
	Charging-Characteristics Charging-Nodes	Grouped	
	Primary-OCS-Charging-Function-Name	DiameterIdentity	
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
	3GPP-AAA-Server-Name	DiameterIdentity	
	Maximum-Number-Accesses	Unsigned32	
Note 1	1: The AVP codes from 320 to 399 are reserved for TS 29.234	4	1
	2: The 3GPP-AAA-Server-Name definition is moved to TS 29.	273 starting from Rel-12.	
400	GBA-UserSecSettings	OctetString	
	Transaction-Identifier NAF-Hostname	OctetString OctetString	
	GAA-Service-Identifier	OctetString	
404	Key-ExpiryTime	Time	
405	ME-Key-Material	OctetString	
406	UICC-Key-Material GBA U-Awareness-Indicator	OctetString Enumerated	
408	BootstrapInfoCreationTime	Time	
409	GUSS-Timestamp	Time	
410	GBA-Type	Enumerated	29.109 [7]
	UE-Id	OctetString	
412	UE-Id-Type UICC-App-Label	Enumerated OctetString	
	UICC-ME	Enumerated	
415	Requested-Key-Lifetime	Time	
	Private-Identity-Request	Enumerated	
	GBA-Push-Info NAF-SA-Identifier	OctetString OctetString	
419	Security-Feature-Request	OctetString	
420	Security-Feature-Response	OctetString	
	The AVP codes from 421 to 499 are reserved for TS 29.109		
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	
	Access-Network-Charging-Identifier	Grouped	
	Access-Network-Charging-Identifier-Value	OctetString	
	AF-Application-Identifier	OctetString	29.209
	AF-Charging-Identifier Authorization-Token	OctetString OctetString	[8],
	Flow-Description	IPFilterRule	29.211
	Flow-Grouping	Grouped	[17],
	Flow-Number	Unsigned32	29.214
	Flows	Grouped	[18]
	Flow-Status	Enumerated	
	Flow-Usage	Enumerated	
			
513	Specific-Action Max-Requested-Bandwidth	Enumerated	

	Max-Requested-Bandwidth-DL	Unsigned32	1
	Max-Requested-Bandwidth-UL	Unsigned32	1
	Media-Component-Description	Grouped	1
	Media-Component-Number	Unsigned32	1
	Media-Sub-Component AVP	Grouped	1
	Media-Type	Enumerated	1
	RR-Bandwidth	Unsigned32	<u> </u>
	RS-Bandwidth	Unsigned32	<u> </u>
	SIP-Forking-Indication	Enumerated	1
	Codec-Data	OctetString	1
	Service-URN	OctetString	1
	Acceptable-Service-Info	Grouped	1
	Service-Info-Status	Enumerated	1
	MPS-Identifier	OctetString	1
	AF-Signalling-Protocol	Enumerated	1
	Sponsored-Connectivity-Data	Grouped	1
	Sponsor-Identity	OctetString	1
	Application-Service-Provider-Identity	OctetString	1
	Rx-Request-Type	Enumerated	1
	Min-Requested-Bandwidth-DL	Unsigned32	1
	Min-Requested-Bandwidth-UL	Unsigned32	1
	Required-Access-Info	Enumerated	<u> </u>
	IP-Domain-Id	OctetString]
	GCS-Identifier	OctetString]
	Sharing-Key-DL	Unsigned32	<u> </u>
540	Sharing-Key-UL	Unsigned32	Ī
541	Retry-Interval	Unsigned32	1
542	Sponsoring-Action	Enumerated	1
543	Max-Supported-Bandwidth-DL	Unsigned32	1
	Max-Supported-Bandwidth-UL	Unsigned32	1
545	Min-Desired-Bandwidth-DL	Unsigned32	Ī
546	Min-Desired-Bandwidth-UL	Unsigned32	Ī
547	MCPTT-Identifier	OctetString	Ī
548	Service-Authorization-Info	Unsigned32	1
549	Media-Component-Status	Unsigned32	1
	Priority-Sharing-Indicator	Enumerated	1
	AF-Requested-Data	Unsigned32	†
	Content-Version	Unsigned64	†
	Pre-emption-Control-Info	Unsigned32	1
	Extended-Max-Requested-BW-DL	Unsigned32	1
	Extended-Max-Requested-BW-UL	Unsigned32	†
	Extended-Max-Supported-BW-DL	Unsigned32	†
	Extended-Max-Supported-BW-UL	Unsigned32	†
	Extended-Min-Desired-BW-DL	Unsigned32	†
	Extended-Min-Desired-BW-UL	Unsigned32	†
	Extended-Min-Requested-BW-DL	Unsigned32	†
	Extended-Min-Requested-BW-UL	Unsigned32	†
	MCVideo-Identifier	OctetString	†
	The AVP codes from 563 to 599 are reserved for TS 29.209, TS		I
	Visited-Network-Identifier	OctetString	
	Public-Identity	UTF8String	†
	Server-Name	UTF8String	†
	Server-Capabilities	Grouped	†
	Mandatory-Capability	Unsigned32	†
	Optional-Capability	Unsigned32 Unsigned32	†
	User-Data	OctetString	†
	SIP-Number-Auth-Items	Unsigned32	†
			29.229 [2]
	SIP-Authentication-Scheme	UTF8String	+
	SIP-Authenticate	OctetString	+
	SIP-Authorization	OctetString	+
	SIP-Auth Pote Item	OctetString	+
	SIP-Auth-Data-Item	Grouped	1
	SIP-Item-Number	Unsigned32	1
	Server-Assignment-Type	Enumerated	1
615	Deregistration-Reason	Grouped	

616 Reason-Code Enumerated 617 Reason-Info UTF8String 618 Charging-Information Grouped 619 Primary-Event-Charging-Function-Name DiameterURI 620 Secondary-Event-Charging-Function-Name DiameterURI 621 Primary-Charging-Collection-Function-Name DiameterURI 622 Secondary-Charging-Collection-Function-Name DiameterURI 623 User-Data-Afready-Available Enumerated 624 User-Data-Afready-Available Enumerated 625 Confidentially-Key OctetString 626 Integrity-Key OctetString 627 Illean-Fast-Request-Type Enumerated 628 Supported-Features Grouped 629 Feature-List Unisigned32 630 Feature-List Unisigned32 631 Supported-Applications Grouped 632 Associated-Identities Grouped 633 Originating-Request Enumerated 634 Wildcarded-Public-Identity UTF3String 635 MP-Diges-Authenticate Grouped 636 Wildcarded-Public-Identity UTF3String 637 JAR-Figes-Authentication Enumerated 64				
Garging-Information	616	Reason-Code	Enumerated	
Garging-Information	617	Reason-Info	UTF8String	
619 Primary-Event-Charaging-Function-Name DiameterURI 620 Secondary-Event-Charaging-Function-Name DiameterURI 621 Primary-Charaging-Collection-Function-Name DiameterURI 622 Secondary-Charaging-Collection-Function-Name DiameterURI 623 User-Authorization-Type Enumerated 624 User-Data-Aready-Available Enumerated 625 Confidentiality-Key OctetString 626 Integrity-Key OctetString 627 User-Data-Request-Type Enumerated 628 Integrity-Key OctetString 627 User-Data-Request-Type Enumerated 628 Supported-Features Grouped 629 Feature-List-ID Unsigned32 631 Supported-Applications Grouped 632 Associated-Identities Grouped 633 Carouted-Applications Grouped 633 Vilidacrade-Public-Identity UTF8String 635 Wildacrade-Public-Identity UTF8String 637 Wildacrade-Hullica Grouped 638 Uppersed-Authenticate Grouped 639 Cost-Festoration-Info Grouped 640 Wildscarde-Will-Full UTF8String	618	Charging-Information	Grouped	
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G21 Primary-Charging-Collection-Function-Name DiameterURI				
Secondary-Charging-Collection-Function-Name DiameterUR				•
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626 Integrity-Key CotetString 627 User-Data-Request-Type 627 User-Data-Request-Type 628 Supported-Features 629 Grouped 629 Feature-List-ID CotetString 629 Feature-List-ID Unsigned32 630 Feature-List 631 Supported-Applications 632 Associated-Identities 633 Conjuntary Company 634 Wildcarded-Public-Identity UTF8String 635 SiF-Digest-Authenticate 636 Wildcarded-Public-Identity UTF8String 637 UAR-Flags Unsigned32 638 Loose-Route-Indication 639 SiSC-Pice-Restoration-Info 639 SiSC-Pice-Restoration-Info 630 SiSC-Pice-Restoration-Info 630 SiSC-Pice-Restoration-Info 640 Path CottetString 641 Contact 642 Subscription-Info 643 Call-ID-SiP-Header 643 Call-ID-SiP-Header 644 Contact 645 CottetString 646 Record-Route 647 Associated-Registered-Identities 648 Grouped 649 Feature-List-ID 649 Restoration-Info 640 Path 640 CottetString 641 Contact 641 Contact 642 Call-ID-SiP-Header 643 Call-ID-SiP-Header 644 CottetString 645 CottetString 646 Signed-Route-Indication 647 Associated-Registered-Identities 648 CottetString 649 CottetString 640 Sociated-Registered-Identities 640 CottetString 641 Contact 641 Contact 642 CottetString 643 CottetString 644 CottetString 645 CottetString 646 Sociated-Registered-Identities 647 Associated-Registered-Identities 648 Restoration-Indication 649 Restoration-Indication 640 Restoration-Indication 641 Contact 642 CottetString 643 Restoration-Indication 644 CottetString 645 Restoration-Indication 646 Restoration-Indication 647 Associated-Registered-Identities 648 Restoration-Indication 659 Restoration-Indication 650 Session-Priority 650 Session-Priority 651 Library 652 Restoration-Indication 653 Library 653 Library 654 Indicated-Proceed-Indication 655 Library 655 SAR-Flags 656 Allowed-WAF-WWSF-Identities 657 WebRTC-Authentication-Function-Name 658 Urbary-Indication 659 RTR-Flags 659 RTR-Flags 650 Restoration-Indication 650 Requested-Domain 651 Indication 652 Requested-Domain 653 Library-Indication 654 Indication 655 Library-Indication 656 Requested-Domain 657 Proceed-Indication 658 Library-Indication 659			Enumerated	
Integrity-Key	624	User-Data-Already-Available	Enumerated	
Integrity-Key			OctetString	
Enumerated G28 Supported-Features Grouped				
628 Supported-Features 629 Feature-List ID Unsigned32 630 Feature-List Unsigned32 631 Supported-Applications 632 Associated-Identities 633 Losse-Request 634 Wildcarded-Public-Identity UTF8String 635 SiP-Digest-Authenticate 636 Wildcarded-HMPU UTF8String 637 UAR-Flags Unsigned32 638 Losse-Route-Indication 639 Ecschward-Indication 630 Ecschward-Indication 630 Ecschward-Indication 631 Losse-Route-Indication 632 Ecschward-Indication 633 Losse-Route-Indication 634 Contact 635 Ecschward-Indication 646 Contact 647 Contact 648 Ecschward-Indication 649 Path 640 Path 640 Path 641 Contact 642 Subscription-Info 643 Call-ID-SIP-Header 643 Call-ID-SIP-Header 644 From-SiP-Header 645 Ecschward-Indication 646 Record-Route 647 Rossociated-Registered-Identities 648 Restoration-Indication 650 Session-Priority 651 Identity-with-Emergency-Registration 652 Priviledged-Sender-Indication 653 LiA-Flags 654 Ildnita-Cseq-Sequence-Number 655 SAR-Flags 656 Allowed-WAF-WWSF-Identities 657 WebBTC-Wuth-Emergency-Registration 658 Priviledged-Sender-Indication 659 Restoration-Indication 650 Session-Priority 651 Ildentity-with-Emergency-Registration 652 Ildnita-Cseq-Sequence-Number 653 LIA-Flags 654 Ildnita-Cseq-Sequence-Number 655 SAR-Flags 655 MobBTC-Web-Server-Function-Name 656 WebBTC-Web-Server-Function-Name 657 WebBTC-Web-Server-Function-Name 658 WebBTC-Web-Server-Function-Name 659 Restoration 650 Service-Indication 650 Service-Indication 651 Identity-Set 652 Ildnita-Cseq-Sequence-Number 653 LIA-Flags 654 Ildnita-Cseq-Sequence-Number 655 SAR-Flags 656 Ildnita-Cseq-Sequence-Number 657 WebBTC-Web-Server-Function-Name 658 Unsigned32 659 Restoration-Indication 650 Description-Indication 650 Description-Indication 651 Description-Indication 652 Description-Indication 653 LiA-Flags 654 Ildnita-Cseq-Sequence-Number 655 SAR-Flags 655 Ildnita-Cseq-Sequence-Number 656 WebBTC-Web-Server-Function-Name 657 WebBTC-Web-Server-Function-Name 658 WebBTC-Web-Server-Function-Name 659 Restoration-Indication 650 Description-Indication 650 Description-Indication 6				ł
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Basil Supported-Applications Grouped				
Supported-Applications Grouped				
Associated-Identities Grouped	630	Feature-List	Unsigned32	
1933 Originating-Request	631	Supported-Applications	Grouped	
1933 Originating-Request				
B34 Wildcarded-Public-Identity UTF8String				
Signormonia				1
Mildcarded-IMPU				
MAR_Flags				
Base Loose-Route-Indication Enumerated				
Base Loose-Route-Indication Enumerated	637	UAR-Flags	Unsigned32	
SCSCF-Restoration-Info				
G40 Path OctetString G41 Contact OctetString G42 Subscription-Info Grouped G43 Call-ID-SIP-Header OctetString G44 From-SIP-Header OctetString G44 From-SIP-Header OctetString G45 To-SIP-Header OctetString G45 To-SIP-Header OctetString G46 Record-Route OctetString G47 Associated-Registered-Identities Grouped G48 Multiple-Registration-Indication Enumerated G49 Restoration-Info Grouped G50 Session-Priority Enumerated G50 Session-Priority Enumerated G51 Identity-with-Emergency-Registration Grouped G52 Privilledged-Sender-Indication Enumerated G52 Privilledged-Sender-Indication Enumerated G53 LIA-Flags Unsigned32 G54 Initial-CSeq-Sequence-Number Unsigned32 G55 Allowed-WAF-WWSF-Identities Grouped Grouped G70 WebRTC-Authentication-Function-Name UTF8String G70 WebRTC-Web-Server-Function-Name UTF8String Unsigned32 Motern The AVP codes from 660 to 699 are reserved for TS 29.229. Tool User-Identity Grouped OctetString OctetStrin				†
Contact				†
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Call-ID-SIP-Header				
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658 WebRTC-Web-Server-Function-Name UTF8String 659 RTR-Flags Unsigned32 Note: The AVP codes from 660 to 699 are reserved for TS 29.229. Grouped 700 User-Identity Grouped 701 MSISDN OctetString 702 User-Data OctetString 703 Data-Reference Enumerated 704 Service-Indication OctetString 705 Subs-Req-Type Enumerated 706 Requested-Domain Enumerated 707 Current-Location Enumerated 708 Identity-Set Enumerated 709 Expiry-Time Time 710 Send-Data-Indication Enumerated 711 DSAI-Tag OctetString 712 One-Time-Notification Enumerated 713 Requested-Nodes Unsigned32 714 Serving-Node-Indication Enumerated 715 Repository-Data-ID Grouped 716 Sequence-Number Unsigned32 <				
659 RTR-Flags Unsigned32 Note: The AVP codes from 660 to 699 are reserved for TS 29.229. Grouped 701 User-Identity Grouped 701 MSISDN OctetString 702 User-Data OctetString 703 Data-Reference Enumerated 704 Service-Indication OctetString 705 Subs-Req-Type Enumerated 706 Requested-Domain Enumerated 707 Current-Location Enumerated 708 Identity-Set Enumerated 709 Expiry-Time Time 710 Send-Data-Indication Enumerated 711 DSAI-Tag OctetString 712 One-Time-Notification Enumerated 713 Requested-Nodes Unsigned32 714 Serving-Node-Indication Enumerated 715 Repository-Data-ID Grouped 716 Sequence-Number Unsigned32 717 Pre-paging-Supported Enumerated	657	WebRTC-Authentication-Function-Name	UTF8String	
659 RTR-Flags Unsigned32 Note: The AVP codes from 660 to 699 are reserved for TS 29.229. Grouped 701 User-Identity Grouped 701 MSISDN OctetString 702 User-Data OctetString 703 Data-Reference Enumerated 704 Service-Indication OctetString 705 Subs-Req-Type Enumerated 706 Requested-Domain Enumerated 707 Current-Location Enumerated 708 Identity-Set Enumerated 709 Expiry-Time Time 710 Send-Data-Indication Enumerated 711 DSAI-Tag OctetString 712 One-Time-Notification Enumerated 713 Requested-Nodes Unsigned32 714 Serving-Node-Indication Enumerated 715 Repository-Data-ID Grouped 716 Sequence-Number Unsigned32 717 Pre-paging-Supported Enumerated	658	WebRTC-Web-Server-Function-Name	UTF8String	
Note: The AVP codes from 660 to 699 are reserved for TS 29.229. Grouped 700 User-Identity Grouped 701 MSISDN OctetString 702 User-Data OctetString 703 Data-Reference Enumerated 704 Service-Indication OctetString 705 Subs-Req-Type Enumerated 706 Requested-Domain Enumerated 707 Current-Location Enumerated 708 Identity-Set Enumerated 709 Expiry-Time Time 710 Send-Data-Indication Enumerated 711 DSAI-Tag OctetString 712 One-Time-Notification Enumerated 713 Requested-Nodes Unsigned32 714 Serving-Node-Indication Enumerated 715 Repository-Data-ID Grouped 716 Sequence-Number Unsigned32 717 Pre-paging-Supported Enumerated 718 Local-Time-Zone-Indication Enumerated				†
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704Service-IndicationOctetString705Subs-Req-TypeEnumerated706Requested-DomainEnumerated707Current-LocationEnumerated708Identity-SetEnumerated709Expiry-TimeTime710Send-Data-IndicationEnumerated711DSAI-TagOctetString712One-Time-NotificationEnumerated713Requested-NodesUnsigned32714Serving-Node-IndicationEnumerated715Repository-Data-IDGrouped716Sequence-NumberUnsigned32717Pre-paging-SupportedEnumerated718Local-Time-Zone-IndicationEnumerated	703	Data-Reference	Enumerated	
705Subs-Req-TypeEnumerated706Requested-DomainEnumerated707Current-LocationEnumerated708Identity-SetEnumerated709Expiry-TimeTime710Send-Data-IndicationEnumerated711DSAI-TagOctetString712One-Time-NotificationEnumerated713Requested-NodesUnsigned32714Serving-Node-IndicationEnumerated715Repository-Data-IDGrouped716Sequence-NumberUnsigned32717Pre-paging-SupportedEnumerated718Local-Time-Zone-IndicationEnumerated				
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707Current-LocationEnumerated708Identity-SetEnumerated709Expiry-TimeTime710Send-Data-IndicationEnumerated711DSAI-TagOctetString712One-Time-NotificationEnumerated713Requested-NodesUnsigned32714Serving-Node-IndicationEnumerated715Repository-Data-IDGrouped716Sequence-NumberUnsigned32717Pre-paging-SupportedEnumerated718Local-Time-Zone-IndicationEnumerated				†
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709Expiry-TimeTime710Send-Data-IndicationEnumerated711DSAI-TagOctetString712One-Time-NotificationEnumerated713Requested-NodesUnsigned32714Serving-Node-IndicationEnumerated715Repository-Data-IDGrouped716Sequence-NumberUnsigned32717Pre-paging-SupportedEnumerated718Local-Time-Zone-IndicationEnumerated				
710Send-Data-IndicationEnumerated711DSAI-TagOctetString712One-Time-NotificationEnumerated713Requested-NodesUnsigned32714Serving-Node-IndicationEnumerated715Repository-Data-IDGrouped716Sequence-NumberUnsigned32717Pre-paging-SupportedEnumerated718Local-Time-Zone-IndicationEnumerated				.
710Send-Data-IndicationEnumerated711DSAI-TagOctetString712One-Time-NotificationEnumerated713Requested-NodesUnsigned32714Serving-Node-IndicationEnumerated715Repository-Data-IDGrouped716Sequence-NumberUnsigned32717Pre-paging-SupportedEnumerated718Local-Time-Zone-IndicationEnumerated				20 220 [41
711DSAI-TagOctetString712One-Time-NotificationEnumerated713Requested-NodesUnsigned32714Serving-Node-IndicationEnumerated715Repository-Data-IDGrouped716Sequence-NumberUnsigned32717Pre-paging-SupportedEnumerated718Local-Time-Zone-IndicationEnumerated			Enumerated	23.328 [4]
712One-Time-NotificationEnumerated713Requested-NodesUnsigned32714Serving-Node-IndicationEnumerated715Repository-Data-IDGrouped716Sequence-NumberUnsigned32717Pre-paging-SupportedEnumerated718Local-Time-Zone-IndicationEnumerated				Ţ
713Requested-NodesUnsigned32714Serving-Node-IndicationEnumerated715Repository-Data-IDGrouped716Sequence-NumberUnsigned32717Pre-paging-SupportedEnumerated718Local-Time-Zone-IndicationEnumerated				†
714Serving-Node-IndicationEnumerated715Repository-Data-IDGrouped716Sequence-NumberUnsigned32717Pre-paging-SupportedEnumerated718Local-Time-Zone-IndicationEnumerated				ł
715Repository-Data-IDGrouped716Sequence-NumberUnsigned32717Pre-paging-SupportedEnumerated718Local-Time-Zone-IndicationEnumerated				ļ
716Sequence-NumberUnsigned32717Pre-paging-SupportedEnumerated718Local-Time-Zone-IndicationEnumerated				ļ
717Pre-paging-SupportedEnumerated718Local-Time-Zone-IndicationEnumerated				
717Pre-paging-SupportedEnumerated718Local-Time-Zone-IndicationEnumerated	716	Sequence-Number	Unsigned32	
718 Local-Time-Zone-Indication Enumerated				Ī
				†
TIS JUDIN-Flags Unsigned32				ł
	119	יטטוג-ו iays	Unsigneusz	<u> </u>

700	Call Deference Info	Oracina d	
	Call-Reference-Info	Grouped	_
	Call-Reference-Number	OctetString	_
	AS-Number	OctetString	
	The AVP codes from 723 to 799 are reserved for TS 29.329.		
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
	Event-Type	Grouped	-
	SIP-Method	UTF8String	4
	Event	UTF8String	_
	Content-Type Content-Type	UTF8String	4
	Content-Length	Unsigned32	<u> </u>
	Content-Disposition	UTF8String	_
	Role-of-Node	Enumerated	
	User-Session-Id	UTF8String	
	Calling-Party-Address	UTF8String	
	Called-Party-Address	UTF8String	
	Time-Stamps	Grouped	
	SIP-Request-Timestamp	Time	
	SIP-Response-Timestamp	Time	
	Application-Server	UTF8String	
837	Application-provided-called-party-address	UTF8String	
838	Inter-Operator-Identifier	Grouped	
839	Originating-IOI	UTF8String	
840	Terminating-IOI	UTF8String	
841	IMS-Charging-Identifier	UTF8String	
842	SDP-Session-Description	UTF8String	
	SDP-Media-Component	Grouped	
	SDP-Media-Name	UTF8String	
	SDP-Media-Description	UTF8String	
	CG-Address	Address	
	GGSN-Address	Address	
	Served-Party-IP-Address	Address	
	Authorized-QoS	UTF8String	
	Application-Server-Information	Grouped	
	Trunk-Group-Id	Grouped	+
	Incoming-Trunk-Group-Id	UTF8String	+
	Outgoing-Trunk-Group-Id	UTF8String	32.299 [5]
	Bearer-Service	OctetString	_
	Service-Id	UTF8String	-
	Associated-URI	UTF8String	-
			_
	Charged-Party De Controlling Address	UTF8String	+
	PoC-Controlling-Address	UTF8String	+
	PoC-Group-Name	UTF8String	_
	Cause	Grouped	
	Cause-Code	Integer32	4
	Node-Functionality	Enumerated	4
	Service-Specific-Data	UTF8String	4
	Originator	Enumerated	4
	PS-Furnish-Charging-Information	Grouped	<u> </u>
	PS-Free-Format-Data	OctetString	_
	PS-Append-Free-Format-Data	Enumerated	_
	Time-Quota-Threshold	Unsigned32	
	Volume-Quota-Threshold	Unsigned32	
870	Trigger-Type	Enumerated	
871	Quota-Holding-Time	Unsigned32	
872	Reporting-Reason	Enumerated	
	Service-Information	Grouped	
874	PS-Information	Grouped	
	Reserved	-	
	IMS-Information	Grouped	7
	MMS-Information	Grouped	†
	LCS-Information	Grouped	7
	PoC-Information	Grouped	†
	MBMS-Information	Grouped	7
	Quota-Consumption-Time	Unsigned32	┪
	Media-Initiator-Flag	Enumerated	†
JUZ	modia ililiator riag	Enamerated	1

	-			
883	PoC-Server-Role	Enumer	rated	
884	PoC-Session-Type	Enumer	ated	1
	Number-Of-Participants	Unsigne		1
	Originator-Address	Group		†
				4
	Participants-Involved	UTF8S		4
	Expires	Unsigne		<u> </u>
889	Message-Body	Group	ed	
890	Reserved	-		
891	Reserved	-		1
	Reserved	_		1
		_		4
	Reserved	-		4
	Reserved	-		<u> </u>
895	Reserved	-		
896	Reserved	-		1
	Address-Data	UTF8S	trina	1
	Address-Domain	Group		+
				4
899	Address-Type	Enumer	ated	
900	TMGI	OctectS	tring	
	Required-MBMS-Bearer-Capabilities	UTF8S		1
	MBMS-StartStop-Indication	Enumer		†
				1
	MBMS-Service-Area	OctectS		4
	MBMS-Session-Duration	Unsigne		1
	Alternative-APN	UTF8S	tring	1
906	MBMS-Service-Type	Enumer	ated	Ī
	MBMS-2G-3G-Indicator	Enumer		1
	MBMS-Session-Identity	OctetSt		+
	•			<u> </u>
909		UTF8S		<u> </u>
910	Additional-MBMS-Trace-Info	OctetSt	tring	
911	MBMS-Time-To-Data-Transfer	Unsigne	ed32	
	MBMS-Session-Identity-Repetition-Number	Unsigne		1
	MBMS-Required-QoS	UTF8S:		†
				4
	MBMS-Counting-Information	Enumer		1
	MBMS-User-Data-Mode-Indication	Enumer		<u> </u>
916	MBMS-GGSN-Address	UTF8S	tring	20.004
917	MBMS-GGSN-IPv6-Address	UTF8S	trina	29.061
	MBMS-BMSC-SSM-IP-Address	UTF8S		[13]
	MBMS-BMSC-SSM-IPv6-Address	UTF8S		+
				4
	MBMS-Flow-Identifier	OctetSt		1
	CN-IP-Multicast-Distribution	Enumer	ated	<u> </u>
922	MBMS-HC-Indicator	Enumer	ated	
923	MBMS-Access-Indicator	Enumer	ated	
	MBMS-GW-SSM-IP-Address	OctetSt		1
	MBMS-GW-SSM-IPv6-Address	OctetSt		†
				+
	MBMS-BMSC-SSM-UDP-Port	OctetSt		1
	MBMS-GW-UDP-Port	OctetSt		1
928	MBMS-GW-UDP-Port-Indicator	Enumer	ated	
	MBMS-Data-Transfer-Start	Unsigne		1
	MBMS-Data-Transfer-Stop	Unsigne		†
				1
	MBMS-Flags	Unsigne		4
	Restart-Counter	Unsigne		1
933	Diagnostic-Info	Unsigne	ed32	
934	MBMS-Cell-List	OctetSt		Ī
	The AVP codes from 935 to 999 are reserved for TS 29.061		3	
		Enumerated		
	Bearer-Usage	Enumerated		
	Charging-Rule-Install	Grouped		
1002	Charging-Rule-Remove	Grouped		
	Charging-Rule-Definition	Grouped		
	Charging-Rule-Base-Name	UTF8String		
			20 242 [40]	
	Charging-Rule-Name	OctetString	29.212 [19]	
	Event-Trigger	Enumerated		
	Metering-Method	Enumerated		
1008	Offline	Enumerated		
	Online	Enumerated		
	Precedence	Unsigned32		
1010	li recedence	Unsignedaz		J

1011 Reporting-Level	Enumerated
1012 TFT-Filter	IPFilterRule
1013 TFT-Packet-Filter-Information	Grouped
1014 ToS-Traffic-Class	OctetString
1016 QoS-Information	Grouped
1018 Charging-Rule-Report	Grouped
1019 PCC-Rule-Status 1020 Bearer-Identifier	Enumerated Octob String
1020 Bearer-Identifier 1021 Bearer-Operation	OctetString
1022 Access-Network-Charging-Identifier-Gx	Enumerated Grouped
1023 Bearer-Control-Mode	Enumerated
1024 Network-Request-Support	Enumerated
1025 Guaranteed-Bitrate-DL	Unsigned32
1026 Guaranteed-Bitrate-UL	Unsigned32
1027 IP-CAN-Type	Enumerated
1028 QoS-Class-Identifier	Enumerated
1029 QoS-Negotiation	Enumerated
1030 QoS-Upgrade	Enumerated
1031 Rule-Failure-Code	Enumerated
1032 RAT-Type	Enumerated
1033 Event-Report-Indication	Grouped
1034 Allocation-Retention-Priority	Grouped
1035 CoA-IP-Address	Address
1036 Tunnel-Header-Filter	IPFilterRule
1037 Tunnel-Header-Length	Unsigned32
1038 Tunnel-Information	Grouped
1039 CoA-Information	Grouped
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32
1041 APN-Aggregate-Max-Bitrate-UL	Unsigned32
1042 Revalidation-Time	Time
1043 Rule-Activation-Time	Time
1044 Rule-DeActivation-Time	Time
1045 Session-Release-Cause	Enumerated
1046 Priority-Level 1047 Pre-emption-Capability	Unsigned32
1048 Pre-emption-Capability	Enumerated 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	Enumerated
1065 PDN-Connection-ID	OctetString
1066 Monitoring-Key	OctetString
1067 Usage-Monitoring-Information	Grouped
1068 Usage-Monitoring-Level	Enumerated
1069 Usage-Monitoring-Report	Enumerated
1070 Usage-Monitoring-Support	Enumerated
1071 CSG-Information-Reporting	Enumerated
1072 Packet-Filter-Usage	Enumerated
1073 Charging-Correlation-Indicator	Enumerated
1074 QoS-Rule-Base-Name	UTF8String
1075 Routing-Rule-Remove	Grouped
1076 Routing-Rule-Definition	Grouped
1077 Routing-Rule-Identifier	OctetString

1078 Routing-Filter	Grouped	
1079 Routing-IP-Address	Address	
1080 Flow-Direction	Enumerated	
1081 Routing-Rule-Install	Grouped	
1082 Credit-Management-Status	Unsigned32	
1085 Redirect-Information	Grouped	
1086 Redirect- Support	Enumerated	
1087 TDF-Information	Grouped	
1088 TDF-Application-Identifier	OctetString	
1089 TDF-Destination-Host	DiameterIdentity	
1090 TDF-Destination-Realm	DiameterIdentity	
1091 TDF-IP-address	Address	
1092 ADC-Rule-Install	Grouped	
1093 ADC-Rule-Remove 1094 ADC-Rule-Definition	Grouped Grouped	
1095 ADC-Rule-Base-Name	UTF8String	
1096 ADC-Rule-Name 1097 ADC-Rule-Report	OctetString Grouped	
1097 ADC-Rule-Report 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	Lituinicialeu	
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	LITEOU :	
1200 Domain-Name	UTF8String	
1201 Recipient-Address	Grouped Time	
1202 Submission-Time 1203 MM-Content-Type	Grouped	
1203 Mini-Content-Type 1204 Type-Number	Enumerated	
1204 Type-Number 1205 Additional-Type-Information	UTF8String	
1206 Content-Size	Unsigned32	
1207 Additional-Content-Information	Grouped	
1208 Addressee-Type	Enumerated	
1209 Priority	Enumerated	
1210 Message-ID	UTF8String	
1211 Message-Type	Enumerated	
1212 Message-Size	Unsigned32	32.299 [5]
1213 Message-Class	Grouped	
1214 Class-Identifier	Enumerated	
1215 Token-Text	UTF8String	
1216 Delivery-Report-Requested	Enumerated	
1217 Adaptations	Enumerated	
1218 Applic-ID	UTF8String	
1219 Aux-Applic-Info	UTF8String	
1220 Content-Class	Enumerated	
1221 DRM-Content	Enumerated	
1222 Read-Reply-Report-Requested	Enumerated	
1223 Reply-Applic-ID	UTF8String	

<u>_</u>	
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
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	-
1247 PDP-Context-Type	Enumerated
1248 MMBox-Storage-Requested	Enumerated
1249 Service-Specific-Info	Grouped
1250 Called-Asserted-Identity	UTF8String
1251 Requested-Party-Address	UTF8String
1252 PoC-User-Role	Grouped
1253 PoC-User-Role-IDs	UTF8String
1254 PoC-User-Role-info-Units	Enumerated
1255 Talk-Burst-Exchange	Grouped
1256 Service-Generic-Information	Grouped
1257 Service-Specific-Type	Unsigned32
1258 Event-Charging-TimeStamp	Time
1259 Participant-Access-Priority	Enumerated
1260 Participant-Group	Grouped
1261 PoC-Change-Conditions	Enumerated
1262 PoC-Change-Time	Time
1263 Access-Network-Information	OctetString
1264 Trigger	Grouped
1265 Base-Time-Interval	Unsigned32
1266 Envelope	Grouped
1267 Envelope 1267 Envelope-End-Time	Time
1268 Envelope-Reporting	Enumerated
1269 Envelope-Reporting 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
	Unsigned32
1282 Number-Of-Received-Talk-Bursts	
1282 Number-Of-Received-Talk-Bursts 1283 Number-Of-Talk-Bursts	Unsigned32
1282 Number-Of-Received-Talk-Bursts 1283 Number-Of-Talk-Bursts 1284 Received-Talk-Burst-Time	
1282 Number-Of-Received-Talk-Bursts	Unsigned32
1282 Number-Of-Received-Talk-Bursts 1283 Number-Of-Talk-Bursts 1284 Received-Talk-Burst-Time	Unsigned32 Unsigned32
1282 Number-Of-Received-Talk-Bursts 1283 Number-Of-Talk-Bursts 1284 Received-Talk-Burst-Time 1285 Received-Talk-Burst-Volume	Unsigned32 Unsigned32 Unsigned32

Note: The AVP codes from 1289 to 1299 are reserved for TS 32.299		
1300 PC5-Radio-Technology	Enumerated	
1301 RAN-End-Time	Time	
1302 RAN-Secondary-RAT-Usage-Report	Grouped	
1303 RAN-Start-Time	Time	
1304 Secondary-RAT-Type	OctetString	
1305 Civic-Address-Information	UTF8String	
1306 WLAN-Operator-Id	Grouped	
1307 WLAN-Operator-Name	UTF8String	
1308 WLAN-PLMN-Id	UTF8String	
1309 API-Content	UTF8String	32.299 [5]
1310 API-Direction	Enumerated	02.200 [0]
1311 API-Identifier	OctetString	
1312 API-Invocation-Timestamp	Time	
1313 API-Result-Code	Unsigned32	
1314 API-Size	Unsigned64	
1315 API-Network-Service-Node	Enumerated	
1316 Exposure-Function-API-Information	Grouped	
1317 SCEF-Address	Address	
1318 TLTRI	Unsigned32	
1319 TTRI	Unsigned32	
Note: The AVP codes from 1320 to 1399 are reserved for TS 32.229.		
1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	
1403 Software-Version	UTF8String	
1404 QoS-Subscribed		
	UTF8String	
1405 ULR-Flags	Unsigned32	
1406 ULA-Flags	Unsigned32	
1407 Visited PLMN Id	OctetString	
1408 Requested-EUTRAN-Authentication-Info	Grouped	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped	
1410 Number-Of-Requested-Vectors	Unsigned32	
1411 Re-Synchronization-Info	OctetString	
1412 Immediate-Response-Preferred	Unsigned32	
1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	
1417 Network-Access-Mode	Enumerated	
1418 HPLMN-ODB	Enumerated	
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	29.272 [21]
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
1426 Access-Restriction-Data	Unsigned32	
1427 APN-OI-Replacement	UTF8String	
1428 All-APN-Configurations-Included-Indicator	Enumerated	
1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile	Grouped	
1432 VPLMN-Dynamic-Address-Allowed	Enumerated	
1433 STN-SR	OctetString	
1434 Alert-Reason	Enumerated	
1435 AMBR	Grouped	
1436 CSG-Subscription-Data	Grouped	
1437 CSG-Id	Unsigned32	
1438 PDN-GW-Allocation-Type	Enumerated	
1439 Expiration-Date	Time	
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32	
1441 IDA-Flags	Unsigned32	
1442 PUA-Flags	Unsigned32	

1444 User-Id		luan =	1	
1446 Equipment-Status				
1446 Regional-Subscription-Zone-Code			<u> </u>	
1448 XRES			Enumerated	
1448 XTES			OctetString	
1449 AUTN				
1450 KASME	1448	XRES	OctetString	
	1449	AUTN	OctetString	
	1450	KASME	OctetString	
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1455 Ker			Address	
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1455 Reserved FDN-Type Enumerated 1456 PDN-Type Enumerated 1457 Roaming-Restricted-Due-To-Unsupported-Feature Enumerated 1459 Trace-Data Grouped 1459 Trace-Reference OctelString 1460 Reserved 1461 Reserved 1461 Reserved 1462 Trace-Depth Enumerated 1463 Trace-Depth Enumerated 1463 Trace-NE-Type-List OctelString 1464 Trace-Interface-List OctelString 1465 Trace-Event-List OctelString 1465 Trace-Event-List OctelString 1466 OMC-Id OctelString 1466 OMC-Id OctelString 1466 OMC-Id OctelString 1467 OPRS-Subscription-Data Grouped 1468 Complete-Data-List-Included-Indicator Enumerated 1469 PDP-Otnext Grouped 1470 OPP-Type OctelString 1471 GPP2-MEID OctelString 1472 OctelString 1473 OctelString OctelString 1473 OctelString OctelString 1474 OctelString OctelString OctelString 1475 OctelString OctelString OctelString OctelString OctelString 1476 OctelString OctelStri				
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1462 Trace-Depth			-	
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1466 Trace-Event-List			OctetString	
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1502 Non-3GPP-IP-Access-APN Enumerated				
				20 272 [20]
				23.213 [20]
1504 ANID UTF8String				
1505 Trace-Info Grouped				
1506 MIP-FA-RK OctetString	1506	IMIP-FA-KK	OctetString	

	1507 MIP-FA-RK-SPI	Unsigned32		
1500 WANA-Cases-Info				
1510				
1511 Access-Authorization-Flags				
1512 TWAN-Default-APN-Context-Id				
1513 Reserved -				
1514 Reserved		-		
1515 Reserved		-		
1516 Full-Network-Name		-		
1517 Short-Network-Name		OctetString		
1518 AAA-Failure-Inclation				
1520 DER-Flags				
1521 DEA-Flags				
1522 RAR-Flags				
1523 DER-S6b-Flags				
1525 SSID				
1525 HESSID				
1526 Access-Network-Info				
1527 TWAN-Connection-Mode				
1529 Connectivity-Parameters				
1529 Connectivity-Flags				
1530 TWAN-PCO				
1531 TWAG-CP-Address			in a	1
TWAN-S2a-Failure-Cause				
1533 TWAN-S2a-Faiture-Cause				
1534 SM-Back-Off-Timer				
1535 WLCP-Key OctelString 318 3GPP-AAA-Server-Name DiameterIdentity DiameterIdentity 1536 Origination-Time-Stamp Unsigned64 1537 Maximum-Wait-Time Unsigned32 Unsigned32 1548 Emergency-Services Unsigned32 Unsigned32 1549 MEI-Check-In-VPLMN-Result Unsigned32 Unsigned32 1540 MEI-Check-In-VPLMN-Result Unsigned32 Unsigne				
318 3GPP-AAA-Server-Name DiameterIdentity 1536 Origination-Time-Stamp Unsigned64 1537 Maximum-Wait-Time Unsigned32 1538 Emergency-Services Unsigned32 1539 AAR-Flags Unsigned32 1540 IMEI-Check-In-VPLMN-Result Unsigned32 1541 IERP-Authorization Unsigned32 1541 ERP-Authorization Unsigned32 Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.234 and is now defined in 3GPP TS 29.273 from Rel-12. 1600 IMME-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 29.272 1613 SIPTO-Permission Enumerated 1614 Error-Diagnostic Enumerated 1615 UE-SRVCC-Capability Enumerated 1616 MPS-Priority Unsigned32 1617 VPLIMN-LIPA-Allowed Enumerated 1618 LIPA-Permission Enumerated 1619 Catter Unsigned32 OctetString 1610 Catter Unsigned32 OctetString 1611 Catter Unsigned32 OctetString 1612 Catter OctetString Catter OctetString 1613 Uses OctetString OctetString 1614 Catter OctetString OctetString 1615 UE-SRVCC-Capability Enumerated 1616 Uses OctetString OctetString OctetString 1617 VPLIMN-LIPA-Allowed Enumerated 1618 UPA-Permission Enumerated 1619 OctetString OctetString OctetString OctetString 1621 OctetString OctetString OctetString OctetString OctetString OctetString				
1536 Origination-Time-Stamp				
1537 Maximum-Wait-Time				
1538 Emergency-Services				
1539 AAR-Flags				
1540 IMEI-Check-In-VPLMN-Result Unsigned32 Unsign				
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1622 MDT-ConfigurationGrouped1623 Job-TypeEnumerated1624 Area-ScopeGrouped				
1623 Job-TypeEnumerated1624 Area-ScopeGrouped				
1624 Area-Scope Grouped				
1625 List-Ut-Measurements Unsigned 32				
	1625 List-Of-Measurements	Unsigne	032	

1626 Reporting-Trigger	Unsigned32
1627 Report-Interval	Enumerated
1628 Report-Amount	Enumerated
1629 Event-ThresholdRSRP	Unsigned32
1630 Event-ThresholdRSRQ	Unsigned32
1631 Logging-Interval	Enumerated
1632 Logging-Duration	Enumerated
1633 Relay-Node-Indicator	Enumerated
1634 MDT-User-Consent	Enumerated
1635 PUR-Flags	Unsigned32
1636 Subscribed-VSRVCC	Enumerated
1637 Equivalent-PLMN-List	Grouped
1638 CLR-Flags	Unsigned32
1639 UVR-Flags	Unsigned32
1640 UVA-Flags	Unsigned32
1641 VPLMN-CSG-Subscription-Data	Grouped
1642 Time-Zone	UTF8String
1643 A-MSISDN	OctetString
1644 Reserved	-
1645 MME-Number-for-MT-SMS	OctetString
1646 Reserved	
1647 Reserved	-
1648 SMS-Register-Request	Enumerated
1649 Local-Time-Zone	Grouped
1650 Daylight-Saving-Time	Enumerated
1651 GMLC-Info	Grouped
1652 GMLC-Name	DiameterIdentity
1653 GMLC-Realm	DiameterIdentity
1654 Subscription-Data-Flags	Unsigned32
1655 Measurement-Period-LTE	Enumerated
1656 Measurement-Period-UMTS	Enumerated
1657 Collection-Period-RRM-LTE	Enumerated
1658 Collection-Period-RRM-UMTS	Enumerated
1659 Positioning-Method	OctetString
1660 Measurement-Quantity	OctetString
1661 Event-Threshold-Event-1F	Integer32
1662 Event-Threshold-Event-1I	Integer32
1663 Restoration-Priority	Unsigned32
1664 SGs-MME-Identity	UTF8String
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
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1691 eDRX-Cycle-Length	Grouped	
1692 eDRX-Cycle-Length-Value	OctetString	
1693 UE-PC5-AMBR	Unsigned32	
1694 MBSFN-Area	Grouped	
1695 MBSFN-Area-ID	Unsigned32	1
1696 Carrier-Frequency	Unsigned32	1
1697 RDS-Indicator	Enumerated	1
1698 Service-Gap-Time	Unsigned32	†
1699 Aerial-UE-Subscription-Information	Unsigned32	+
		+
1700 Broadcast-Location-Assistance-Data-Types	Unsigned64	4
1701 Paging-Time-Window	Grouped	4
1702 Operation-Mode	Unsigned32	_
1703 Paging-Time-Window-Length	OctetString	
1704 Core-Network-Restrictions	Unsigned32	
1705 eDRX-Related-RAT	Grouped	
1706 Interworking-5GS-Indicator	Enumerated	1
Note: The AVP codes from 1707 to 1799 are reserved for TS 29.272.		1
2000 SMS-Information	Grouped	
2001 Data-Coding-Scheme	Integer32	+
		+
2002 Destination-Interface	Grouped	4
2003 Interface-Id	UTF8String	4
2004 Interface-Port	UTF8String	_
2005 Interface-Text	UTF8String	
2006 Interface-Type	Enumerated	
2007 SM-Message-Type	Enumerated	
2008 Originating-SCCP-Address	Address	1
2009 Originator-Interface	Grouped	†
2010 Recipient-SCCP-Address	Address	+
2011 Reply-Path-Requested	Enumerated	+
		4
2012 SM-Discharge-Time	Time	4
2013 SM-Protocol-ID	OctetString	
2014 SM-Status	OctetString	
2015 SM-User-Data-Header	OctetString	
2016 SMS-Node	Enumerated	
2017 SMSC-Address	Address	1
2018 Client-Address	Address	1
2019 Number-of-Messages-Sent	Unsigned32	1
2020 Low-Balance-Indication	Enumerated	+
2021 Remaining-Balance	Grouped	1
		+
2022 Refund-Information	OctetString	4
2023 Carrier-Select-Routing-Information	UTF8String	32.299 [5]
2024 Number-Portability-Routing-Information	UTF8String	02.200 [0]
2025 PoC-Event-Type	Enumerated	
2026 Recipient-Info	Grouped	
2027 Originator-Received-Address	Grouped	
2028 Recipient-Received-Address	Grouped	1
2029 SM-Service-Type	Enumerated	†
2030 MMTel-Information	Grouped	†
2030 MMTel-Information 2031 MMTel-Sservice-Type	Unsigned32	+
		+
2032 Service-Mode	Unsigned32	4
2033 Subscriber-Role	Enumerated	4
2034 Number-Of-Diversions	Unsigned32	
2035 Associated-Party-Address	UTF8String	_
2036 SDP-Type	Enumerated	
2037 Change-Condition	Integer32	7
2038 Change-Time	Time	1
2039 Diagnostics	Integer32	7
2040 Service-Data-Container	Grouped	†
		+
2041 Start-Time	Time	4
2042 Stop-Time	Time	4
2043 Time-First-Usage	Time	_
2044 Time-Last-Usage	Time	
2045 Time-Usage	Unsigned32	
2046 Traffic-Data-Volumes	Grouped	1
2047 Serving-Node-Type	Enumerated	1
		1

	Supplementary-Service	Grouped	
	Participant-Action-Type	Enumerated	4
	PDN-Connection-Charging-ID	Unsigned32	4
	Dynamic-Address-Flag	Enumerated	4
	Accumulated-Cost	Grouped	4
	AoC-Cost-Information	Grouped	4
	AoC-Information	Grouped	4
	AoC-Request-Type	Enumerated	4
	Current-Tariff	Grouped	4
	Next-Tariff	Grouped	4
	Rate-Element	Grouped	_
	Scale-Factor	Grouped	_
	Tariff-Information	Grouped	4
	Unit-Cost	Grouped	_
	Incremental-Cost	Grouped	_
	Local-Sequence-Number	Unsigned32	_
	Node-Id	UTF8String	4
	SGW-Change	Enumerated	4
	Charging-Characteristic-Selection-Mode	Enumerated	4
	SGW-Address	Address	4
	Dynamic-Address-Flag-Extension	Enumerated	
	The AVP codes from 2069 to 2099 are reserved for TS 32.299.		1
	reserved	-	-
	Application-Server-ID	UTF8String	-
	Application-Service-Type	Enumerated	-
	Application-Session-ID	Unsigned32	4
	Delivery-Status	UTF8String	4
	reserved	•	4
	reserved	•	4
	reserved	-	
	reserved	-	
	reserved	-	32.299 [5]
	IM-Information	Grouped	
	Number-Of-Messages-Successfully-Exploded	Unsigned32	
	Number-Of-Messages-Successfully-Sent	Unsigned32	
	Total-Number-Of-Messages-Exploded	Unsigned32	
	Total-Number-Of-Messages-Sent	Unsigned32	
	DCD-Information	Grouped	4
	Content-ID	UTF8String	4
	Content-provider-ID	UTF8String	4
	Charge-Reason-Code	Enumerated	
	The AVP codes from 2119 to 2199 are reserved for TS 32.299.		
	Subsession-Decision-Info	Grouped	-
	Subsession-Enforcement-Info	Grouped	4
	Subsession-Id	Unsigned32	4
	Subsession-Operation	Enumerated	29.215
	Multiple-BBERF-Action	Enumerated	[22]
	UE-Local-IPv6-Prefix	OctetString	
	DRA-Deployment	Enumerated	4
	PCRF-Address	DiameterIdentity	4
	DRA-Binding	Enumerated	
	The AVP codes from 2209 to 2299 are reserved for TS 29.215.		1
	reserved	-	4
	SIP-Request-Timestamp-Fraction	Unsigned32	4
	SIP-Response-Timestamp-Fraction	Unsigned32	4
	Online-Charging-Flag	Enumerated	4
	CUG-Information	OctetString	4
	Real-Time-Tariff-Information	Grouped	
	Tariff-XML	UTF8String	32.299 [5]
	MBMS GW-Address	Address	4
	IMSI-Unauthenticated-Flag	Enumerated	4
10000	Account-Expiration	Time	
			
2310	AoC-Format	Enumerated	1
2310 2311			

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.	Enamoratoa	l l
2400 LMSI	OctetString	
	Grouped	-
2401 Serving-Node		_
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	_
2404 LCS-Capabilities-Sets	Unsigned32	
2405 GMLC-Address	Address	29.173
2406 Additional-Serving-Node	Grouped	[25]
2407 PPR-Address	Address	
2408 MME-Realm	DiameterIdentity	
2409 SGSN-Name	DiameterIdentity	
2410 SGSN-Realm	DiameterIdentity	Ī
2411 RIA-Flags	Unsigned32	
Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173.	<u> </u>	•
2500 SLg-Location-Type	Enumerated	
2501 LCS-EPS-Client-Name	Grouped	
2502 LCS-Requestor-Name	Grouped	-
2503 LCS-Priority	Unsigned32	-
2504 LCS-QoS	Grouped	-
2505 Horizontal-Accuracy	Unsigned32	-
		_
2506 Vertical-Accuracy	Unsigned32	
2507 Vertical-Requested	Enumerated	
2508 Velocity-Requested	Enumerated	_
2509 Response-Time	Enumerated	
2510 Supported-GAD-Shapes	Unsigned32	
2511 LCS-Codeword	UTF8String	
2512 LCS-Privacy-Check	Enumerated	
2513 Accuracy-Fulfilment-Indicator	Enumerated	
2514 Age-Of-Location-Estimate	Unsigned32	
2515 Velocity-Estimate	OctetString	
2516 EUTRAN-Positioning-Data	OctetString	
2517 ECGI	OctetString	
2518 Location-Event	Enumerated	1
2519 Pseudonym-Indicator	Enumerated	29.172
2520 LCS-Service-Type-ID	Unsigned32	[24]
2521 LCS-Privacy-Check-Non-Session	Grouped	- '- · ·
2522 LCS-Privacy-Check-Session	Grouped	
2523 LCS-QoS-Class	Enumerated	
2524 GERAN-Positioning-Info		\dashv
	Grouped	-
2525 GERAN-Positioning-Data	OctetString	_
2526 GERAN-GANSS-Positioning-Data	OctetString	_
2527 UTRAN-Positioning-Info	Grouped	_
2528 UTRAN-Positioning-Data	OctetString	_
2529 UTRAN-GANSS-Positioning-Data	OctetString	_
2530 LRR-Flags	Unsigned32	
2531 LCS-Reference-Number	OctetString	
2532 Deferred-Location-Type	Unsigned32	
2533 Area-Event-Info	Grouped	
2534 Area-Definition	Grouped	
2535 Area	Grouped	
2536 Area-Type	Unsigned32	
2537 Area-Identification	Grouped	
2538 Occurrence-Info	Enumerated	
2539 Interval-Time	Unsigned32	
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2540 Periodic-LDR-Information Grouped 2541 Reporting-Amount Unsigned32 2542 Reporting-Interval Unsigned32 2543 Reporting-PLMN-List Grouped 2544 Reporting-PLMN-List Grouped 2545 PLR-Filags Unsigned32 2546 PLA-Filags Unsigned32 2549 LRA-Filags Unsigned32 2549 LRA-Filags Unsigned32 2549 LRA-Filags Unsigned32 2549 LRA-Filags Unsigned32 2550 Periodic-Location-Support-Indicator Enumerated 2552 ESML-C-Cell-Info Grouped 2552 SML-C-Cell-Info Grouped 2553 Gell-Protion-ID Unsigned32 2554 INRTT-RCID OctetString 2555 Cell-Protion-Pressure Unsigned32 2556 Unsigned32 2557 Barroment-Pressure Unsigned32 2558 Unsigned34 Unsigned32 2559 Motion-E-Pressure Unsigned32 2550 Unsigned34 Unsigned32 2560 Unsagned35 Unsigned32 2561 Maximum-Interval Unsigned32 2562 Sampling-Interval Unsigned32 2563 Reporting-Duration Unsigned32 2564 Maximum-Interval Unsigned32 2565 Reporting-Duration Unsigned32 2566 Reporting-Duration Unsigned32 2567 Reporting-Duration Unsigned32 2568 Reporting-Duration Unsigned32 2569 Reporting-Duration Unsigned32 2560 Unsigned34 Unsigned35 2560 Reporting-Duration Unsigned32 2561 Reporting-Duration Unsigned32 2562 Reporting-Duration Unsigned32 2563 Reporting-Duration Unsigned32 2564 Reporting-Duration Unsigned32 2565 Reporting-Duration Unsigned32 2566 Reporting-Default-Indicator Enumerated 2567 Reporting-Default-Indicator Enumerated 2568 Reporting-Default-Indicator Enumerated 2569 Unstablish Unsigned32 2560 Unstablish Unsigned32 Unsigned32 2560 Unstablish Unsigned32 Unsigned32 2560 Unstablish Unsigned32 Unsigned32 2560 Unstablish Unsigned33 Unsigned33 2560 Unstablish Unsigned34 Unsigned34 Unsigned35				,
25243 Reporting-Herwal Unsigned32 2524 24			Grouped	
2543 Reporting-PLMN-List Grouped				
2544 PLNN-ID-List				
2545 PLR-Flags		_ist		
2546 PLA-Flags				
2647 Deferred-MT-LR-Data Grouped				
2549 R.A.F. Flags				
2549 RA-Flags				
2550 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 ESML-C-oil-Info Grouped 2553 Californic Grouped 2554 IxRTT-RCID Unsigned32 2554 IxRTT-RCID OctetString 2555 Civic-Address UTF8String 2556 Civic-Address UTF8String 2557 Barometric-Pressure Unsigned32 2558 UTRA-Address-Positioning-Data OctetString 2559 Miscin-Event-Info Grouped 2559 Universal Grouped 2550 Civic-Address Unsigned32 2550 Miscin-Event-Info Grouped 2551 Maximum-Interval Unsigned32 2561 Maximum-Interval Unsigned32 2562 Sampling-Interval Unsigned32 2563 Reporting-Duration Unsigned32 2564 Reporting-Location-Requirements Unsigned32 2565 Additional-Area Grouped 2565 Miscin-Event-Info Unsigned32 2566 Maximum-Interval Unsigned32 2561 Maximum-Interval Unsigned32 2562 Sampling-Interval Unsigned32 2563 Mayimum-Interval Unsigned32 2564 Reporting-Location-Requirements Unsigned32 2565 Mayimum-Interval Unsigned32 2566 Mayimum-Interval Unsigned32 2567 Mayimum-Interval Unsigned32 2568 Mayimum-Interval Unsigned32 2569 Mayimum-Interval Unsigned32 2560 Image Mayimum-Interval Unsigned32 2561 MS-Application-Requirements Unsigned32 2562 Low-Priority-Indicator Enumerated 2563 Image Unsigned34 2565 Image Unsigned34 2566 Image Unsigned35 2566 Unserted-Indicator Enumerated 2567 Image Unsigned35 2568 Unserted-Indicator Enumerated 2569 Image Unsigned35 2560 Unserted-Indicator Enumerated 2560 Image Unsigned36 2560 Unsigned36 Unsigned36 2560		<u>e</u>		
2551 Prioritized-List-Indicator Enumerated Grouped 2552 ESMLC-Cell-Info Grouped 2553 Cell-Pertion-ID Unsigned32 2554 IXRTT-RCID OctetString 2555 Delayed-Location-Reporting-Data Grouped 2556 Civic-Address UTF8String 2557 Barometrio-Pressure Unsigned32 2558 UTRAN-Additional-Positioning-Data OctetString 2559 Motion-Event-Info Grouped 2560 Linear-Distance Unsigned32 2561 Maximum-Interval Unsigned32 2561 Maximum-Interval Unsigned32 2562 Sampling-Interval Unsigned32 2563 Reporting-Duration Unsigned32 2564 Reporting-Location-Requirements Unsigned32 2565 Additional-Area Grouped 2566 Additional-Area Unsigned32 2566 Additional-Area Unsigned32 2567 Compared Unsigned32 2568 Reporting-Location-Requirements Unsigned32 2569 Motion-Report Unsigned32 2560 Tespera Unsigned32 2561 Maximum-Interval Unsigned32 2562 Compared Unsigned32 2563 Reporting-Location-Requirements Unsigned32 2564 Compared Unsigned32 2565 Additional-Area Unsigned32 2566 Compared Unsigned32 2567 Unsigned32 Unsigned32 2568 Unsigned34 Unsigned34 2569 Unsigned34 Unsigned35 2560 IP-Reddress-Prefix-Length Unsigned32 2560 IP-Reddress-Prefix-Length Unsigned32 2560 IP-Reddress-Prefix-Length Unsigned32 2560 IR-Reserved Unsigned32 2570 Reserved Unsigned32 2570 Reserved Unsigned34 Unsigned35 2570 Reserved Unsigned35 Unsigned36 2571 IR-Reserved Unsigned36 Unsigned37 2572 Status-AS-Code Enumerated 2573 NNI-Information Grouped 2574 NNI-Information Grouped 2575 Related-Info-Caton-Info Unsigned36 2576 Related-Info-Caton-Info Unsigned36 2577 Related-Info-Caton-Info Unsigned36 2578 Unsigned37 Unsigned37 2579 Unsigned38 Unsigned38 Unsigned38 2571 IMS-Visited-Network-Information Unsigned36 Unsigned36 2571 Unsigned37 Unsigned37 Unsigned37 Unsigned38 Unsigned38 Unsigned38		0	Ŭ	
2552 [SSMLC-Cell-Info Grouped 2553 [Oeli-Portion-ID Unsigned32 2554 [IRTT-RCID OctetString 2555 [Oeli-Address UTR58tring 2555 [Oeli-Address UTR58tring 2557 [Barometric-Pressure Unsigned32 2558 [UTRAN-Additional-Positioning-Data OctetString 2559 [MIRAN-Additional-Positioning-Data OctetString 2559 [Miclin-Event-Info Grouped 2560 [Linear-Distance Unsigned32 2561 [Maximum-Interval Unsigned32 2562 [Sampling-Interval Unsigned32 2563 [Reporting-Duration Unsigned32 2563 [Additional-Area Unsigned32 2563 [Additional-Area Grouped Note: The AVP codes from 2566 to 2599 are reserved for TS 29.172. 2500 [reserved] UTF8String 2500 [Pasterned-Indicator Enumerated 2601 [Pasterned-Indicator Enumerated 2602 [Owe-Priorly-Indicator Enumerated 2604 [Local-Owe-Indicator Enumerated 2605 [Transcoder-Inserted-Indicator Enumerated 2604 [Dept-Address-Perilix-Length Unsigned				
2555 1km Tracin Description Descri		icator		
2555 Delayed-Location-Reporting-Data Grouped 2556 Civic-Address UTF8String 2557 Dairometric-Pressure Unsigned32 2558 Civic-Address UTF8String 2558 UTRAN-Additional-Positioning-Data OctetString 2559 UTRAN-Additional-Positioning-Data OctetString 2559 Motion-Event-Info Grouped 2559 Unsigned32 2551 Maximum-Interval Unsigned32 2562 Sampling-Interval Unsigned32 2563 Reporting-Duration Unsigned32 2563 Reporting-Duration Unsigned32 2564 Reporting-Location-Requirements Unsigned32 2565 Additional-Area Grouped 2566 Additional-Area Grouped 2560 Intervity Grouped UTF8String 2560 Intervity Grouped UTF8String 2560 Intervity Grouped UTF8String 2560 Intervity Grouped UTF8String 2560 Intervity Grouped Unsigned32 2561 Additional-Area UTF8String 2562 Cover-Priority -Indicator Enumerated 2563 Intervity Grouped Unsigned32 2564 Locat-Grouped Unsigned32 Unsigned32 2565 Additional-Area UTF8String 2560 Intervity Grouped Unsigned32 2561 Additional-Area Unsigned32 Unsigned32 2562 Application-Reference-Identifier UTF8String Unsigned32 2563 Unsigned32 Unsigned32 Unsigned32 Unsigned32 2564 Locat-Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned33 Unsigned34 Unsigned34 Unsigned35				
2555 Delayed-Location-Reporting-Data Grouped 2558 Civic-Address UTF8String 2557 Barometric-Pressure Unsigned32 2558 Delayed-Delayer Unsigned32 2559 Motion-Event-Info Grouped 2550 Motion-Event-Info Grouped 2560 Linear-Distance Unsigned32 2561 Maximum-Interval Unsigned32 2562 Sampling-Interval Unsigned32 2563 Reporting-Duration Unsigned32 2564 Reporting-Location-Requirements Unsigned32 2564 Reporting-Location-Requirements Unsigned32 2564 Reporting-Location-Requirements Unsigned32 2565 Reporting-Interval Unsigned32 2566 Reporting-Inconting-Duration Unsigned32 2566 Reporting-Inconting-Unside Unsigned32 2567 Reporting-Inconting-Unside Unsigned32 2568 Reporting-Inconting-Unside Unsigned32 2569 Motional-Area Unsigned32 2560 Index-Application-Reference-Identifier UTF8String 2500 Index-Application-Reference-Identifier UTF8String 2501 IMS-Application-Reference-Identifier UTF8String 2503 IP.Ream-Default-Indicator Enumerated 2504 Local-GW-Inserted-Indicator Enumerated 2505 Transcoder-Inserted-Indicator Enumerated 2506 PDP-Address-Prefix-Length Unsigned32 2506 PDP-Address-Prefix-Length Unsigned32 2507 Reserved 2508 PDP-Address-Prefix-Length Unsigned32 2509 Reserved 2700 Reserved 2701 Transit-IOI-List UTF8String 2702 Statis-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address Address 2706 Relationship-Mode Enumerated 2707 Related-IMS-Charging-Identifier UTF8String 2711 Related-IMS-Charging-Identifier UTF8String 2712 Related-IMS-Charging-Identifier UTF8String 2713 TAD-Identifier UTF8String 2714 TAD-Identifier UTF8String 2715 Reserved 2716 Reserved 2717 Related-IMS-Charging-Identifier UTF8Stri				
2556 Civic-Address				
2557 Barometric-Pressure Unsigned32 2558 UTRAN-Additional-Positioning-Data OcteString Grouped 2559 Motion-Event-Info Grouped 2559 Motion-Event-Info Grouped 2550 Unsigned32 Unsigned32 2561 Maximum-Interval Unsigned32 2561 Maximum-Interval Unsigned32 2563 Reporting-Duration Unsigned32 2563 Reporting-Duration Unsigned32 2564 Reporting-Duration Unsigned32 2565 Reporting-Duration Unsigned32 2565 Additional-Area Grouped Variable V		Reporting-Data		
Description				
2559 Motion-Event-Info				
2560 Linear-Distance Unsigned32 2561 Maximum-Interval Unsigned32 2562 Sampling-Interval Unsigned32 2562 Sampling-Interval Unsigned32 2563 Reporting-Ducation Requirements Unsigned32 2565 Reporting-Location-Requirements Unsigned32 2565 Additional-Area Unsigned32 2565 Additional-Area Unsigned32 2565 Additional-Area Unsigned32 2565 Additional-Area UT-85tring 2560 Intervention Unsigned32 Unsigned34		I-Positioning-Data		
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Sampling-Interval Unsigned32				\rightarrow
2563 Reporting-Duration Unsigned32 2564 Reporting-Location-Requirements Unsigned32 2565 Additional-Area Grouped Note: The AVP codes from 2566 to 2599 are reserved for TS 29.172. Foreign 1 2600 Ireserved - 2601 IlMS-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated 2603 IlP-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated 2605 Transcoder-Inserted-Indicator Enumerated 2606 IPDP-Address-Prefix-Length Unsigned32 Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299. TS 2700 Reserved 2701 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 Grouped 2710 Access-Transfer-Information Grouped 2710 Access-Transfer-Type Enumerated <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
2564 Reporting-Location-Requirements Unsigned32				
Sees Additional-Area Grouped				\rightarrow
Note: The AVP codes from 2566 to 2599 are reserved for TS 29.172.		n-Requirements		_
Access-Transfer-Information Benumerated Benumerated				
MS-Application-Reference-Identifier		om 2566 to 2599 are reserved for TS 29	0.172.	1
1- 2002 Low-Priority-Indicator Enumerated 2003 IP-Realm-Default-Indicator Enumerated 2004 Local-GW-Inserted-Indicator Enumerated 2005 Transcoder-Inserted-Indicator Enumerated 2006 PDP-Address-Prefix-Length Unsigned32 Unsigned32 Value Value			-	
2603 IP-Realm-Default-Indicator				
2604 Local-GW-Inserted-Indicator				
2605 Transcoder-Inserted-Indicator				32.299 [5]
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299.				
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299. 2700 Reserved -				
2700 Reserved -				
2701 Transit-IOI-List		om 2607 to 2699 are reserved for TS 32	2.299.	1
2702 Status-AS-Code			-	
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-Node Address 2713 IMS-Visited-Network-Identifier UTF8String 2714 TWAN-User-Location-Info Grouped 2715 Reserved - 2716 BSSID UTF8String 2717 TAD-Identifier Enumerated Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299. 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 <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
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2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Grouped 2710 Access-Transfer-Type Enumerated 2711 Related-IMS-Charging-Identifier UTF8String 2712 Related-IMS-Charging-Identifier Outsold Distribution UTF8String 2714 TWAN-User-Location-Info Grouped 2715 Reserved - 2716 BSSID UTF8String 2717 TAD-Identifier Enumerated Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299. - 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				
2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Grouped 2710 Access-Transfer-Type Enumerated 2711 Related-IMS-Charging-Identifier UTF8String 2712 Related-IMS-Charging-Identifier -Node Address 2713 IMS-Visited-Network-Identifier UTF8String 2714 TWAN-User-Location-Info Grouped 2715 Reserved - 2716 BSSID UTF8String 2717 TAD-Identifier Enumerated Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299. Enumerated 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				
2708 From-Address UTF8String 32.299 5		9		
2709 Access-Transfer-Information Grouped 32.299 5 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 -				
2710 Access-Transfer-Information Crouped				32,299 [5]
2711 Related-IMS-Charging-Identifier UTF8String 2712 Related-IMS-Charging-Identifier-Node Address 2713 IMS-Visited-Network-Identifier UTF8String 2714 TWAN-User-Location-Info Grouped 2715 Reserved - 2716 BSSID UTF8String 2717 TAD-Identifier Enumerated Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299. - 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				
Related-IMS-Charging-Identifier-Node				\rightarrow
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2807 CS-Service-Qos-Request-Identifier OctetString 2808 CS-Service-QoS-Request-Operation Enumerated 2809 Mute-Notification Enumerated		ess		
2808CS-Service-QoS-Request-OperationEnumerated2809Mute-NotificationEnumerated				
2809 Mute-Notification Enumerated			•	
		Request-Operation		
2810 Monitoring-Time Time				
	2810 Monitoring-Time		Time	

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2811 AN-GW-Status	Enumerated	4
2812 User-Location-Info-Time	Grouped	
2813 CS-Service-Resource-Report	Time	
2814 CS-Service-Resource-Failure-Cause	Enumerated	
2815 CS-Service-Resource-Result-Operation	Enumerated	
2816 Default-QoS-Information	Grouped	
2817 Default-QoS-Name	UTF8String	
2818 Conditional-APN-Aggregate-Max-Bitrate	Grouped	
2819 RAN-NAS-Release-Cause	OctetString	1
2820 Presence-Reporting-Area-Elements-List	OctetString	7
2821 Presence-Reporting-Area-Identifier	OctetString	
2822 Presence-Reporting-Area-Information	Grouped	-
2823 Presence-Reporting-Area-Status	Unsigned32	-
2824 NetLoc-Access-Support	Unsigned32	-
2825 Fixed-User-Location-Info	Grouped	-
		-
2826 PCSCF-Restoration-Indication	Unsigned32	-
2827 IP-CAN-Session-Charging-Scope	Enumerated	_
2828 Monitoring-Flags	Unsigned32	
2829 Default-Access	Enumerated	
2830 NBIFOM-Mode	Enumerated	
2831 NBIFOM-Support	Enumerated	
2832 RAN-Rule-Support	Unsigned32	
2833 Access-Availability-Change-Reason	Unsigned32	
2834 Routing-Rule-Failure-Code	Unsigned32	7
2835 Routing-Rule-Report	Grouped	7
2836 Traffic-Steering-Policy-Identifier-DL	OctetString	
2837 Traffic-Steering-Policy-Identifier-UL	OctetString	
2838 Request-Type	Unsigned32	-
2839 Execution-Time	Time	-
		-
2840 Conditional-Policy-Information	Grouped	-
2841 Resource-Release-Notification	Enumerated	_
2842 Removal-Of-Access	Enumerated	
2843 TCP-Source-Port	Unsigned32	
2844 Default-Bearer-Indication	Enumerated	
2845 PRA-Install	Grouped	
2846 PRA-Remove	Grouped	
2847 3GPP-PS-Data-Off-Status	Enumerated	
2848 Extended-APN-AMBR-DL	Unsigned32	1
2849 Extended-APN-AMBR-UL	Unsigned32	7
2850 Extended-GBR-DL	Unsigned32	
2851 Extended-GBR-UL	Unsigned32	-
2852 Max-PLR-DL	Unsigned32	
2853 Max-PLR-UL		-
	Unsigned32	-
2854 UE-Status	Unsigned32	1
Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212.		
2900 reserved	-	_
2901 Policy-Counter-Identifier	Grouped	_
2902 Policy-Counter-Status	UTF8String	_
2903 Policy-Counter-Status-Report	Grouped	29.219
2904 SL-Request-Type	Enumerated	[26]
2905 Pending-Policy-Counter-Information	Grouped	
2906 Pending-Policy-Counter-Change-Time	Time	
2907 SN-Request-Type	Unsigned32	
Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219.		•
3000 reserved	-	
3001 Device-Action	Grouped	
1 1		
3002 Device-Notification	Larolined	⊣
3002 Device-Notification	Grouped Grouped	
3003 Trigger-Data	Grouped	4
3003 Trigger-Data 3004 Payload	Grouped OctetString	29.368
3003 Trigger-Data 3004 Payload 3005 Action-Type	Grouped OctetString Enumerated	29.368 [27]
3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication	Grouped OctetString Enumerated Enumerated	
3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number	Grouped OctetString Enumerated Enumerated Unsigned32	
3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status	Grouped OctetString Enumerated Enumerated Unsigned32 Enumerated	
3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome	Grouped OctetString Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated	
3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status	Grouped OctetString Enumerated Enumerated Unsigned32 Enumerated	

	11 : 100	
3011 Old-Reference-Number	Unsigned32	
3012 Feature-Supported-In-Final-Target	Unsigned32	
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.		
3100 IP-SM-GW-Number	OctetString	
3101 IP-SM-GW-Name	DiameterIdentity	
3102 User-Identifier	Grouped	
3103 Service-ID	Enumerated	
3104 SCS-Identity	OctetString	
3105 Service-Parameters	Grouped	
3106 T4-Parameters	Grouped	
3107 Service-Data	Grouped	
3108 T4-Data	Grouped	
3109 HSS-Cause	Unsigned32	
3110 SIR-Flags	Unsigned32	
3111 External-Identifier	UTF8String	
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	Unsigned32 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	29.336
3131 Maximum-Detection-Time	Unsigned32	[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	Grouped	
3144 Supported-Monitoring-Event	Unsigned64	
3145 CIR-Flags	Unsigned32	
3146 Service-Result	Grouped	
3147 Service-Result-Code	Unsigned32	
3148 Reference-ID-Validity-Time	Time	
3149 Event-handling	Unsigned32	
3150 NIDD-Authorization-Request	Grouped	
3151 NIDD-Authorization-Response	Grouped	
3152 Service-Report	Grouped	
3153 Node-Type	Unsigned32	
3154 S6t-HSS-Cause	Unsigned32	
3155 Enhanced-Coverage-Restriction	Grouped	
3156 Enhanced-Coverage-Restriction-Data	Grouped	
3157 Restricted-PLMN-List	Grouped	
3158 Allowed-PLMN-List	Grouped	
3159 Requested-Validity-Time	Time	
3160 Granted-Validity-Time	Time	
	O	İ
3161 NIDD-Authorization-Update	Grouped	

3162 Loss-Of-Connectivity-Reason	Unsigned32	
3163 Group-Reporting-Guard-Timer	Unsigned32	
3164 CIA-Flags	Unsigned32	
3165 Group-Monitoring-Event-Report	Grouped	
3166 Group-Monitoring-Event-Report-Item	Grouped	
3167 RIR-Flags	Unsigned32	
3168 Type-Of-External-Identifier	Unsigned32	
3169 APN-Validity-Time	Grouped	
3170 Suggested-Network-Configuration	Grouped	
3171 Monitoring-Event-Report-Status	Grouped	
3172 PLMN-ID-Requested	Enumerated	
3173 AdditionalIdentifiers	Grouped	
3174 NIR-Flags	Unsigned32	
3175 Reporting-Time-Stamp	Time	
3176 Group-User-Identifier	Grouped	
3177 NIA-Flags	Unsigned32	
3178 MTC-Provider-Info	Grouped	
3179 MTC-Provider-ID	UTF8String	
Note: The AVP codes from 3180 to 3199 are reserved for TS 29.336.	<u> </u>	•
3200 SM-Delivery-Outcome-T4	Enumerated	
3201 Absent-Subscriber-Diagnostic-T4	Enumerated	29.337
3202 Trigger-Action	Unsigned32	[29]
3203 MTC-Error-Diagnostic	Unsigned32	[,
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.	gda2	1
3300 SC-Address	OctetString	
3301 SM-RP-UI	OctetString	
3302 TFR-Flags	Unsigned32	
3303 SM-Delivery- Failure-Cause	Grouped	
3304 SM-Enumerated-Delivery-Failure-Cause	Enumerated	
3305 SM-Diagnostic-Info	OctetString	
3306 SM-Delivery-Timer	Unsigned32	
3307 SM-Delivery-Start-Time	Time	
3308 SM-RP-MTI	Enumerated	
3309 SM-RP-SMEA	OctetString	
3310 SRR-Flags	Unsigned32	
3311 SM-Delivery-Not-Intended	Enumerated	
3312 MWD-Status	Unsigned32	
3313 MME-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3314 MSC-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3315 SGSN-Absent-User-Subscriber-Diagnostic SM	Unsigned32	
3316 SM-Delivery-Outcome	Grouped	29.338
3317 MME-SM-Delivery-Outcome	Grouped	[30]
3318 MSC-SM-Delivery-Outcome	Grouped	[30]
3319 SGSN-SM-Delivery-Outcome	Grouped	
3320 IP-SM-GW-SM-Delivery-Outcome	Grouped	
3321 SM-Delivery-Cause	Enumerated	
3322 Absent-User-Diagnostic-SM	Unsigned32	
3323 RDR-Flags	Unsigned32	
3324 SMSMI-Correlation-ID	Unsigned32	
3325 HSS-ID	UTF8String	
3325 HSS-ID 3326 Originating-SIP-URI	UTF8String	
		
3327 Destination-SIP-URI	UTF8String	
3328 OFR-Flags	Unsigned32	
3329 Maximum-UE-Availability-Time	Time	
3330 Maximum-Retransmission-Time	Time	
3331 Requested-Retransmission-Time	Time	
3332 SMS-GMSC-Address	OctetString	
3333 SMS-GMSC-Alert-Event	Unsigned32	
Note: The AVP codes from 3334 to 3399 are reserved for TS 29.338.		1
3400 reserved	-	
3401 Reason-Header	1.7500	
	UTF8String	
3402 Instance-Id	UTF8String	32.299 [5]
3403 Route-Header-Received	UTF8String UTF8String	32.299 [5]
	UTF8String	32.299 [5]

		<u>, </u>	
3406 MTC-IWF-Address		Address	
3407 SM-Device-Trigger-Indicate	or	Enumerated	
3408 SM-Sequence-Number		Unsigned32	
3409 SMS-Result		Unsigned32	
3410 VCS-Information		Grouped	
3411 Basic-Service-Code		Grouped	
3412 Bearer-Capability		OctetString	
3413 Teleservice		OctetString	
3414 ISUP-Location-Number		OctetString	
3415 Forwarding-Pending		Enumerated	
3416 ISUP-Release-Cause		Unsigned32	
3417 MSC-Address		OctetString	
3418 Network-Call-Reference-Nu	ımber	OctetString	
3419 Start-of-Charging		Time	
3420 VLR-Number		OctetString	
3421 CN-Operator-Selection-Ent	ity	Enumerated	
3422 ISUP-Cause-Diagnostics		OctetString	
3423 ISUP-Cause-Location		Unsigned32	
3424 ISUP-Cause-Value		Unsigned32	
3425 EPDG-Address		Address	
3426 Announcing-UE-HPLMN-Id	entifier	UTF8String	
3427 Announcing-UE-VPLMN-Id		UTF8String	
3428 Coverage-Status	enunei	Enumerated	
3429 Layer-2-Group-ID		OctetString	
3430 Monitored-PLMN-Identifier		UTF8String	
3431 Monitoring-UE-HPLMN-Ide	ntifier	UTF8String	
3432 Monitoring-UE-Identifier	nunei	UTF8String	
3433 Monitoring-UE-VPLMN-Ide	otifion	UTF8String	
3434 ProSe-PC3-Control-Protoc			
		Integer32	
3435 ProSe-PC3-EPC-Control-P		Integer32	
3436 Requested-PLMN-Identifie	•	UTF8String	
3437 Requestor-PLMN-Identifier		UTF8String	
3438 Role-Of-ProSe-Function		Enumerated	
3439 Usage-Information-Report-		Integer32	
3440 ProSe-3rd-Party-Applicatio		UTF8String	
3441 ProSe-Direct-Communicati		Grouped	
3442 ProSe-Direct-Discovery-Mo	odel	Enumerated	
3443 ProSe-Event-Type		Enumerated	
3444 ProSe-Function-IP-Address	3	Address	
3445 ProSe-Functionality		Enumerated	
3446 ProSe-Group-IP-Multicast-	Addresses	Address	
3447 ProSe-Information		Grouped	
3448 ProSe-Range-Class		Enumerated	
3449 ProSe-Reason-For-Cancel	ation	Enumerated	
3450 ProSe-Request-Timestamp		Time	
3451 ProSe-Role-Of-UE		Enumerated	
3452 ProSe-Source-IP-Address		Address	
3453 ProSe-UE-ID		OctetString	
3454 Proximity-Alert-Indication		Enumerated	
3455 Proximity-Alert-Timestamp		Time	
3456 Proximity-Cancellation-Tim	estamp	Time	
3457 ProSe-Function-PLMN-Ide		UTF8String	
3458 Application-Specific-Data	Till Of	OctetString	
3459 Coverage-Info		Grouped	
3460 Location-Info		Grouped	
3461 ProSe-Direct-Communicati	on-Pecention-Data-Container	Grouped	
3462 Radio-Frequency	on Necephon-Dala-Container	OctetString	
3463 Radio-Parameter-Set-Info	20	Grouped	
3464 Radio-Parameter-Set-Value	#8	OctetString Integer32	
1946E IDadia Dagacon In-line (integer32	
3465 Radio-Resources-Indicator			
3466 Time-First-Reception		Time	
3466 Time-First-Reception 3467 Time-First-Transmission		Time Time	
3466 Time-First-Reception 3467 Time-First-Transmission 3468 Transmitter-Info		Time	
3466 Time-First-Reception 3467 Time-First-Transmission 3468 Transmitter-Info	to 3499 are reserved for TS 32.299.	Time Time	

3501 BMSC-Port	Unsigned32	
3502 MBMS-Bearer-Event	Unsigned32	
3503 MBMS-Bearer-Event-Notification	Grouped	
3504 MBMS-Bearer-Request	Grouped	
3505 MBMS-Bearer-Response	Grouped	
3506 MBMS-Bearer-Result	Unsigned32	
3507 MBMS-Start-Time	Time	
3508 Radio-Frequency	Unsigned32	
3509 TMGI-Allocation-Request	Grouped	
3510 TMGI-Allocation-Response	Grouped	
3511 TMGI-Allocation-Result	Unsigned32	
3512 TMGI-Deallocation-Request	Grouped	
3513 TMGI-Deallocation-Response	Grouped	
3514 TMGI-Deallocation-Result	Unsigned32	
3515 TMGI-Expiry	Grouped	
3516 TMGI-Expriy	Unsigned32	29,468
3517 MB2U-Security	Unsigned32	[31]
3518 Local-M1-Information	Grouped	[31]
3519 Local-MB2-U-Information	Grouped	
3520 MBMS-eNB-IP-Multicast-Address	Address	
3521 MBMS-eNB-IPv6-Multicast-Address	Address	
3522 MBMS-GW-SSM-IP-Address	Address	
3523 MBMS-GW-SSM-IPv6-Address	Address	
3524 Common-Tunnel-Endpoint-Identifier	OctetString	
3525 FEC-Request	OctetString	
3526 ROHC-Request	Grouped	
3527 ROHC-Full-Header-Periodicity	Float32	
3528 ROHC-Profile	Unsigned32	
3529 Userplane-Protocol-Result	Grouped	
3530 ROHC-Result	Unsigned32	
3531 FEC-Result	Unsigned32	
3532 ROHC-Max-CID	Unsigned32	
Note: The AVP codes from 3533 to 3599 are reserved for TS 29.468.	g	L
3600 Origin-App-Layer-User-Id	UTF8String	
3601 Target-App-Layer-User-Id	UTF8String	
3602 ProSe-Function-ID	OctetString	
3603 ProSe-Request-Type	Unsigned32	
3604 PDUID	OctetString	
3605 Application-Data	UTF8String	
3606 Allowed-Suffixes-Number	•	29.343
3607 Monitor-Target	Unsigned32 Grouped	[32]
3608 ProSe-Code-Suffix-Mask	Grouped	
3609 Suffix-Code	OctetString	
3610 Suffix-Mask	OctetString	
3611 Banned-User-Target	Grouped	
3612 Metadata-Indicator	Unsigned32	
Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343.		
3701 ProSe-Subscription-Data	Grouped	
3702 ProSe-Permission	Unsigned32	
3703 ProSe-Allowed-PLMN	Grouped	
3704 ProSe-Direct-Allowed	Unsigned32	29.344
3705 UPR-Flags	Unsigned32	[33]
3706 PNR-Flags	Unsigned32	
3707 ProSe-Initial-Location-Information	Grouped	
3708 Authorized-Discovery-Range	Unsigned32	
Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344.	<u> </u>	•
3800 Reserved		
3801 App-Layer-User-Id	UTF8String	
138UZ IASSISTANCE-INTO	Grouped	
3802 Assistance-info 3803 Assistance-Info-Validity-Timer	Grouped Unsigned32	
3803 Assistance-Info-Validity-Timer	Unsigned32	29.345
3803 Assistance-Info-Validity-Timer 3804 Discovery-Type	Unsigned32 Unsigned32	29.345 [34]
3803 Assistance-Info-Validity-Timer 3804 Discovery-Type 3805 Filter-Id	Unsigned32 Unsigned32 OctetString	
3803 Assistance-Info-Validity-Timer 3804 Discovery-Type 3805 Filter-Id 3806 MAC-Address	Unsigned32 Unsigned32 OctetString UTF8String	
3803 Assistance-Info-Validity-Timer 3804 Discovery-Type 3805 Filter-Id	Unsigned32 Unsigned32 OctetString	

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3809 P2P-Features	Unsigned32	<u> </u>
3810 ProSe-App-Code	UTF8String	<u> </u>
3811 ProSe-App-Id	UTF8String	
3812 ProSe-App-Mask	UTF8String	
3813 ProSe-Discovery-Filter	Grouped	<u> </u>
3814 PRR-Flags	Unsigned32	<u> </u>
3815 ProSe-Validity-Timer	Unsigned32	
3816 Requesting-EPUID	UTF8String	
3817 Targeted-EPUID	UTF8String	
3818 Time-Window	Unsigned32	
3819 WiFi-P2P-Assistance-Info	Grouped	
3820 WLAN-Assistance-Info	Grouped	
3821 WLAN-Link-Layer-Id	OctetString	
3822 WLAN-Link-Layer-Id-List	Grouped	1
3823 Location-Update-Trigger	Grouped	†
3824 Location-Update-Event-Type	Unsigned32	1
3825 Change-Of-Area-Type	Grouped	-
3826 Location-Update-Event-Trigger	Unsigned32	1
3827 Report-Cardinality	Enumerated	1
3828 Minimum-Interval-Time	Unsigned32	†
3829 Periodic-Location-Type	Grouped	1
3830 Location-Report-Interval-Time	Unsigned32	1
3830 Location-Report-Interval-Time 3831 Total-Number-Of-Reports	Unsigned32 Unsigned32	+
		4
3832 Validity-Time-Announce	Unsigned32 Unsigned32	1
3833 Validity-Time-Monitor 3834 Validity-Time-Communication	Unsigned32 Unsigned32	4
	<u> </u>	4
3835 ProSe-App-Code-Info	Grouped	<u> </u>
3836 MIC	OctetString	<u> </u>
3837 UTC-based-Counter	Unsigned32	<u> </u>
3838 ProSe-Match-Refresh-Timer	Unsigned32	<u>_</u>
3839 ProSe-Metadata-Index-Mask	OctetString	
3840 App-Identifier	Grouped	
3841 OS-ID	OctetString	<u> </u>
3842 OS-App-ID	UTF8String	<u> </u>
3843 Requesting-RPAUID	UTF8String	<u> </u>
3844 Target-RPAUID	UTF8String	<u> </u>
3845 Target-PDUID	OctetString	<u> </u>
3846 ProSe-Restricted-Code	OctetString	<u> </u>
3847 ProSe-Restricted-Code-Suffix-Range	OctetString	<u> </u>
3848 Beginning-Suffix	OctetString	<u> </u>
3849 Ending-Suffix	OctetString	<u> </u>
3850 Discovery-Entry-ID	Unsigned32	
3851 Match-Timestamp	Time	
3852 PMR-Flags	Unsigned32	1
3853 ProSe-Application-Metadata	UTF8String	
3854 Discovery-Auth-Request	Grouped	
3855 Discovery-Auth-Response	Grouped	
3856 Match-Request	Grouped	I
3857 Match-Report-Info	Grouped	
3858 Banned-RPAUID	UTF8String	Ī
3859 Banned-PDUID	OctetString	Ī
3860 Code-Receiving-Security-Material	Grouped	Ī
3861 Code-Sending-Security-Material	Grouped	1
3862 DUSK	OctetString	
3863 DUIK	OctetString	
3864 DUCK	OctetString	
3865 MIC-Check-indicator	Unsigned32	Ī
3866 Encrypted-Bitmask	OctetString	Ī
3867 ProSe-App-Code-Suffix-Range	OctetString	1
3868 PC5-tech	OctetString	1
Note: The AVP codes from 3869 to 3899 are reserved for TS 29.345.	3	1
3900 Reserved		
3901 Enhanced-Diagnostics	Grouped	00000
3902 Inter-UE-Transfer	Enumerated	32.299 [5]
3903 TWAG-Address	Address	†
	,	1

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	Announcement-Information	Grouped	
	Announcement-Identifier	Unsigned32	4
	Announcement-Order	Unsigned32	4
	Variable-Part	Grouped	<u> </u>
	Variable-Part-Order	Unsigned32	<u> </u>
	Variable-Part-Type	Unsigned32	<u> </u>
	Variable-Part-Value	UTF8String	+
	Time-Indicator	Unsigned32	<u> </u>
	Quota-Indicator	Enumerated	<u> </u>
	Play-Alternative	Enumerated	+
	Language Privacy-Indicator	UTF8String Enumerated	+
	Called-Identity	UTF8String	+
	Called-Identity Called-Identity-Change	Grouped	+
	UWAN-User-Location-Info	Grouped	+
	Monitoring-Event-Configuration-Activity	Integer32	1
	Monitoring-Event-Report-Data	Grouped	1
	Monitoring-Event-Information	Grouped	<u> </u>
	Monitoring-Event-Functionality	Integer32	1
	Monitoring-Event-Report-Number	Unsigned32	1
	Cellular-Network-Information	OctetString	+
	Related-Change-Condition-Information	Grouped	1
	Related-Criange-Condition-Information Related-Trigger	Grouped	†
	CPDT-Information	Grouped	+
	NIDD-Submission	Grouped	†
	Serving-Node-Identity	DiameterIdentity	†
	CP-CloT-EPS-Optimisation-Indicator	Enumerated	+
	SGi-PtP-Tunnelling-Method	Enumerated	†
	UNI-PDU-CP-Only-Flag	Enumerated	†
	APN-Rate-Control	Grouped	†
	APN-Rate-Control-Downlink	Grouped	†
	APN-Rate-Control-Uplink	Grouped	†
	Additional-Exception-Reports	Enumerated	†
	Rate-Control-Max-Message-Size	Unsigned32	†
	Rate-Control-Max-Rate	Unsigned32	†
	Rate-Control-Time-Unit	Unsigned32	†
	SCS-AS-Address	Grouped	†
	SCS-Address	Address	†
	SCS-Realm	DiameterIdentity	†
	The AVP codes from 3943 to 3999 are reserved for TS 32.299.	,	
	Aggregated-Congestion-Info	Grouped	
	Aggregated-RUCI-Report	Grouped	1
	Congestion-Level-Definition	Grouped	
4003	Congestion-Level-Range	Unsigned32	1
4004	Congestion-Level-Set-Id	Unsigned32	
4005	Congestion-Level-Value	Unsigned32	
	Congestion-Location-Id	Grouped	29.217
	Conditional-Restriction	Unsigned32	[35]
	eNodeB-Id	OctetString	
	IMSI-List	OctetString	
	RCAF-Id	DiameterIdentity	
	Reporting-Restriction	Unsigned32	<u> </u>
	RUCI-Action	Unsigned32	4
	Extended-eNodeB-ID	OctetString	
	The AVP codes from 4014 to 4099 are reserved for TS 29.217.		T
	Network-Congestion-Area-Report	Grouped	29.153
	Ns-Request-Type	Unsigned32	[37]
	The AVP codes from 4103 to 4199 are reserved for TS 29.153.	0.4.42.1	T
	Network-Area-Info-List	OctetString	1
	Reference-Id	OctetString	4
	Transfer-Request-Type	Unsigned32	29.154
	Time-Window	Grouped	[38]
	Transfer-End-Time	Time	' '
	Transfer-Start-Time	Time	4
4207	Transfer-Policy	Grouped	

4200 Transfer Deliev Id	Llasiana d20	
4208 Transfer-Policy-Id	Unsigned32	
4209 Number-Of-UEs	Unsigned32	
4210 Access-Network-Reports	Grouped	
4211 Event-Configuration	Grouped	
4212 Event-Configuration-State	Unsigned32	
4213 Event-Configuration-Status	Grouped	
4214 Event-Reporting-Results	Unsigned32	
4215 Event-Reports	Grouped	
4216 Extended-SCEF-Reference-ID	Unsigned64	
Note: The AVP codes from 4217 to 4299 are reserved for TS 29.154.		ı
4300 Communication-Failure-Information	Grouped	
4301 Cause-Type	Unsigned32	
4302 S1AP-Cause	Unsigned32	
4303 RANAP-Cause	Unsigned32	
4304 GMM-Cause	Unsigned32	
4305 SM-Cause	Unsigned32	
4306 Number-of-UE-Per-Location-Configuration	Grouped	
4307 Number-of-UE-Per-Location-Report	Grouped	
4308 UE-Count	Unsigned32	
4309 BSSGP-Cause	Unsigned32	
4310 Serving-PLMN-Rate-Control	Grouped	
4311 Uplink-Rate-Limit	Unsigned32	29.128
4312 Downlink-Rate-Limit	Unsigned32	[36]
4313 Extended-PCO	OctetString	ارادا
4314 Connection-Action	Unsigned32	
4315 Non-IP-Data	OctetString	
4316 SCEF-Wait-Time	Time	
4317 CMR-Flags	Unsigned32	
4318 RRC-Cause-Counter	Grouped	
4319 Counter-Value	Unsigned32	
4320 RRC-Counter-Timestamp	Time	
4321 TDA-Flags	Unsigned32	
4322 Idle-Status-Indication	Grouped	
4323 Idle-Status-Timestamp	Time	
4324 Active-Time	Unsigned32	
Note: The AVP codes from 4325 to 4399 are reserved for TS 29.128.		L.
4400 Charging-Per-IP-CAN-Session-Indicator	Enumerated	
4401 Access-Network-Info-Change	Enumerated	
4402 Discoveree-UE-HPLMN-Identifier	UTF8String	
4403 Discoveree-UE-VPLMN-Identifier	UTF8String	
4404 Discoverer-UE-HPLMN-Identifier	UTF8String	
4405 Discoverer-UE-VPLMN-Identifier	UTF8String	
4406 3GPP-PS-Data-Off-Status	Enumerated	
4407 Unused-Quota-Timer	Unsigned32	32.299 [5]
4408 Announcing-PLMN-ID	UTF8String	
4409 ProSe-UE-to-Network-Relay-UE-ID	OctetString	
4410 ProSe-Target-Layer-2-ID	OctetString	
	Address	
4411 Relay-IP-address 4412 Target-IP-Address	Address	
4413 FE-Identifier-List		
Note: The AVP codes from 4414 to 4499 are reserved for TS 32.299	UTF8String	
	LITEOCHE	-
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	29.283
4507 DUA-Flags	Linaianadaa	[39]
LACOBINDD Flore	Unsigned32	
4508 NDR-Flags	Unsigned32	
4509 NDA-Flags	Unsigned32 Unsigned32	
4509 NDA-Flags 4510 User-Data-Id	Unsigned32 Unsigned32 Unsigned32	
4509 NDA-Flags 4510 User-Data-Id 4511 MC-Service-User-Profile-Data	Unsigned32 Unsigned32 Unsigned32 Grouped	
4509 NDA-Flags 4510 User-Data-Id	Unsigned32 Unsigned32 Unsigned32	

4514 MC-Data-ID	UTF8String	
Note: The AVP codes from 4515 to 4599 are reserved for TS 29.283.		
4600 V2X-PC5-Allowed-PLMN	Grouped	29.388
4601 V2X-Update-Flags	Unsigned32	[40]
4602 V2X-Notify-Flags	Unsigned32	[40]
Note: The AVP codes from 4603 to 4799 are reserved for TS 29.388.		
4700 V2X-Authorization-Data	Grouped	20, 200
4701 V2X-Permission-in-VPLMN	Unsigned32	29.389 [41]
4702 V2X-Application-Server	Grouped	[41]
Note: The AVP codes from 4703 to 4799 are reserved for TS and TS 2	9.389.	
		29.561
		[42]
Note: The AVP codes from 4800 to 4999 are reserved for TS and TS 2	9.561.	

8 Experimental result codes

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

8.1 3GPP specific result codes

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

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

8.1.1 Informational

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

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

8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

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

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

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

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5008	DIAMETER ERROR TOO MUCH DATA	
5009	DIAMETER ERROR NOT SUPPORTED USER DATA	
5010	unassigned	
5011	DIAMETER ERROR FEATURE UNSUPPORTED	
5012	DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUP PORTED	
Note: The Expe	rimental Result Codes from 5013 to 5020 are reserved for the Toll	
Note: The Even	Lerimental Result Codes from 5021 to 5040 are reserved for the ${\sf T}$	32.299 [5]
5041	DIAMETER ERROR USER NO WLAN SUBSCRIPTION	S SZ.ZYY.
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBS	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 T	S 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	
Note: The Expe	erimental Result Codes from 5069 to 5080 are reserved for TS 29 TS 29.214.	9.209, TS 29.211
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER ERROR USER DATA CANNOT BE MODIFIE	
	D	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIE	29.329 [4]
5105	DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	rimental Result Codes from 5109 to 5119 are reserved for the T	S 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVI	29.061 [13]
5123	DIAMETER ERROR SERVICE AREA	
	erimental Result Codes from 5124 to 5139 are reserved for the T	S 29 061
•	DIAMETER_ERROR_INITIAL_PARAMETERS	3 23.001.
5140 5141		{
5141	DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT	
5142		
5143 5144	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	20 242 [40]
E1 15	DIAMETER OOS BUILE EVENT	29.212 [19]
5145	DIAMETER_QOS_RULE_EVENT	
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
5148	DIAMETER_ADC_RULE_EVENT	
5149	DIAMETER_ERROR_NBIFOM_NOT_AUTHORIZED	
Note: The Expe	erimental Result Codes from 5150 to 5159 are reserved for the T	S 29.212.

5401	DIAMETER_ERROR_IMPI_UNKNOWN	
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALI	29.109 [1
	D	
Note: The Expe	erimental Result Codes from 5404 to 5419 are reserved for the TS	S 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	
Note: The Expe	erimental Result Codes from 5424 to 5449 are reserved for the TS	S 29.272.
5450	DIAMETER ERROR USER NO NON 3GPP_SUBSCRIPTI	
	ON	
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	20 272 [20]
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	29.273 [20]
5453	DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST	
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST	
	erimental Result Codes from 5455 to 5469 are reserved for the TS	S 29.273.
5470	DIAMETER_ERROR_SUBSESSION	
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME	29.215 [22]
	NT	_00 []
Note: The Expe	erimental Result Codes from 5472 to 5489 are reserved for the TS	S 29.215.
5490	DIAMETER ERROR UNAUTHORIZED REQUESTING NE	
	TWORK	29.173 [25]
Note: The Expe	erimental Result Codes from 5491 to 5509 are reserved for the TS	S 29.173.
5510	DIAMETER ERROR UNAUTHORIZED REQUESTING EN	
	TITY	
5511	DIAMETER ERROR UNAUTHORIZED SERVICE	
5512	DIAMETER ERROR REQUESTED RANGE IS NOT	
3312	ALLOWED	
5513	DIAMETER ERROR CONFIGURATION EVENT STORAG	29.336 [28]
0010	E_NOT_SUCCESSFUL	
5514	DIAMETER_ERROR_CONFIGURATION_EVENT_NON_EXI	
3314	STANT	
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	
	erimental Result Codes from 5516 to 5529 are reserved for the TS	S 29 336
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	J 20.000.
5531	DIAMETER_ERROR_SC_CONGESTION	
5532	DIAMETER_ERROR_SM_PROTOCOL	
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	29.337 [29]
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	29.557 [29]
	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDIN	
5535	G	
Note: The Eve	erimental Result Codes from 5536 to 5549 are reserved for the TS	2 20 227
•	DIAMETER ERROR ABSENT USER	J 23.331.
5550		
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5553	DIAMETER_ERROR_ILLEGAL_USER	200 000 000
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	
	erimental Result Codes from 5559 to 5569 are reserved for the TS	
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
	Experimental Result Codes from 5571 to 5589 are reserved for the	ne TS 29.219.
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	
5592	DIAMETER_ERROR_PFID_UNKNOWN	
5593	DIAMETER_ERROR_APP_REGISTER_REJECT	
5594	DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOW	
	ED	29.343 [32]
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	
5596	DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN	
5597	DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_S	
	ET	
5598	DIAMETER_ERROR_MISSING_APPLICATION_DATA	

		T
5599	DIAMETER_ERROR_AUTHORIZATION_REJECT	
5600	DIAMETER_ERROR_DISCOVERY_NOT_PERMITTED	
5601	DIAMETER_ERROR_TARGET_RPAUID_UNKNOWN	
5602	DIAMETER_ERROR_INVALID_APPLICATION_DATA	
Note: The Expe	erimental Result Codes from 5603 to 5609 are reserved for the TS	S 29.343.
5610	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION	
5611	DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]
5612	DIAMETER_ERROR_UE_LOCATION_UNKNOWN	
Note: The Expe	erimental Result Codes from 5613 to 5629 are reserved for the TS	S 29.344.
5630	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT	
	ER	
5631	DIAMETER ERROR ANNOUNCING UNAUTHORIZED IN	
	PLMN	
5632	DIAMETER ERROR INVALID APPLICATION CODE	
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	
5634	DIAMETER_ERROR_PROXIMITY_REJECTED	
5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	
5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS	29.345 [34]
0000	PLMN	
5637	DIAMETER_ERROR_PROXIMITY_CANCELLED	
5638	DIAMETER ERROR INVALID TARGET PDUID	
5639	DIAMETER_ERROR_INVALID_TARGET_RPAUID	
5640	DIAMETER ERROR NO ASSOCIATED RESTRICTED CO	
0010	DE	
5641	DIAMETER ERROR INVALID DISCOVERY TYPE	
	erimental Result Codes from 5642 to 5649 are reserved for the TS	S 29 345
5650	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SER	20.010.
3030	VED VED	
5651	DIAMETER ERROR INVALID EPS BEARER	
5652	DIAMETER ERROR NIDD CONFIGURATION NOT AVAIL	29.128 [36]
3032	ABLE	20.120 [00]
5653	DIAMETER ERROR USER TEMPORARILY UNREACHAB	
3033	LE	
Note: The Eyne	erimental Result Codes from 5654 to 5669 are reserved for the T	S 29 128
5670	DIAMETER ERROR UNKNKOWN DATA	
5671	DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	29.283 [39]
	erimental Result Codes from 5672 to 5689 are reserved for the TS	S 29 128
5690	DIAMETER ERROR UNKNOWN V2X SUBSCRIPTION	
5691	DIAMETER_ERROR_V2X_NOT_ALLOWED	29.388 [40]
	erimental Result Codes from 5692 to 5709 are reserved for the TS	C 20 200
inote. The Expe	eninental result codes from 5092 to 5709 are reserved for the 13	S 29.300.

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

2004-09 CM25 NP-040021 Office of the policy of the	Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	New
2004-09 CMPZ							
2004-99 CM25 NP-040401 003 Renoration of the Application-Id code 6.1.0				001			
2004-09 CM25 NP-040401 003 Removal of User Data Request Type AVP 6.1.0 2004-12 CM26 NP-040679 006 Inclusion of missing Cx AVPs 6.2.0 2004-12 CM26 NP-040679 007 Reservation of command code 310 6.2.0 2004-12 CM26 NP-040679 007 Reservation of command code 310 6.2.0 2004-12 CM26 NP-040679 009 1 Addition of Grib interface 6.2.0 2004-12 CM26 NP-040679 011 Giant France 6.2.0 2004-12 CM26 NP-040579 011 Giant France 6.2.0 2005-03 CM27 NP-050039 041 NP-050039 045 Allocations for Giant France 6.2.0 2005-04 CT22 CP-050039 045 Allocations for Giant France 6.2.0 2005-05 CT22 CP-050039 046 Allocations for Giant France 6.2.0 2005-06 CT22 CP-050039 005 CR Avertage Allocations for Miss Interface 2005-07 CT22 CP-050039 005 CR Avertage Allocations for Miss Interface 2005-09 CT22 CP-050039 005 CR Avertage Allocations for Miss Interface 2005-09 CT22 CP-050039 005 CR Avertage Allocations for Miss Interface 2005-09 CT22 CP-050039 005 Addition of Miss Interface 2005-09 CT22 CP-050031 0052 Addition of Miss Interface 2005-09 CT22 CP-050031 0052 Addition of Miss Interface 2005-09 CT22 CP-050031 0054 Evertage Addition of Miss Interface 2006-09 CT22 CP-050031 0055 Addition of GUSS Interface 2006-09 CT23 CP-050031 0055 Addition of GUSS Interface 2006-09 CT23 CP-050031 0055 Addition of GUSS Interface 2006-09 CT23 CP-050031 0056 Addition of GUSS Interface 2006-09 CT23 CP-050031 0056 Addition of GUSS Interface 2006-09 CT23 CP-050031 0056 Addition of GUSS Interface 2006-00 CT34 CP-050030 0056 CR Avertage CP-050031 2006-00 CT34 CP-050030 0056 CR Avertage CP-050030 2007-00 CT34							
2004-12 CAM25							
2004-12 CN#26 NP-940579 006					1		
2004-12 CAW26					l'		
2004-12 CN#26 NP-040579 099 1 Addition of Gmb Interface 0.2.0					1		
2004-12 CN#26 NP-040509 O10 2 2 Documenting the Reuse of the 3GPP specific application identifier of Ro for Co.							
Re on the Charging Interfaces 6.2.0							
2004-12 CN826 NP-040579 011	2004-12	CN#26	INP-040600	010	2		0.2.0
2005-03	2004-12	CN#26	NP-040579	011			620
Commonstrate Comm							
NP-050039 A3					1		
NP-050039 Ad5 Allocations for Gmb interface NP-050039 Ad6 Allocations for MMS, MM10 Interface NP-050039 Ad6 Allocations for MMS, MM10 Interface Allocation of Septemberla Places Interface Allocations for MMS, MM10 Interface Allocation of	2005-03	CIN#Z1			1		0.3.0
New Processor New Processo							4
2005-06 CT#29 CP-050088 0050 CP-050098 0051 Addition of Maximum-Number-Accesses AVP CP-050919 0051 Addition of Maximum-Number-Accesses AVP CP-050910 0051 Addition of Maximum-Number-Accesses AVP CP-050910 0052 CP-050910 0053 Addition of Preference point to TS 29.230 CP-050910 0053 Addition of Preference point to TS 29.230 CP-050910 0056 Addition of Rx ref. point and renaming of Experimental Result Codes CP-050917 0056 Addition of Rx ref. point and renaming of Experimental Result Codes CP-050917 0058 Addition of SUSS timestamp AVP CP-050912 0058 Addition of GBA-Type AVP CP-050912 0058 Addition of GBA-Type AVP CP-050912 0056 CP-05092 0065 Reservation of AVP Codes for 32.299 CP-050904 0071 CP-050912 0065 Reservation of AVP Codes for 32.299 CP-050904 0071 CP-050904 0072 CP-050904 0073 CP-050904 0074							_
CP-050196 0051 1	0005.00	OT#00					0.4.0
2005-09	2005-06	C1#28					6.4.0
CP-050310 0053					1		
CP-050310 0054 Error code cleanup CP-050310 0056 Addition of Rx ref. point and renaming of Experimental Result Codes 7.0.0 CP-050612 0058 Addition of Rx ref. point and renaming of Experimental Result Codes 7.0.0 CP-050612 0058 Addition of GBA-Type AVP 7.1.0 CP-050612 0065 Addition of GBA-Type AVP 7.1.0 CP-050612 0065 Addition of GBA-Type AVP CP-050612 0065 CP-050625 0066 Management of Sh subscriptions CP-050625 0066 Management of Sh subscriptions CP-050625 0066 Management of Sh subscriptions CP-050632 0069 Additional climb AVP codes for 32.299 CP-050632 CP-050032 0069 Additional climb response to Sh-Subs-Notif CP-050034 0072 1 New error indications for the Sh-Subs-Notif procedure 7.4.0 CP-050034 0072 1 New error indications for the Sh-Subs-Notif procedure 7.4.0 CP-050041 0080 Errors to be sent in response to Sh-Notif CP-0500417 0081 CP-050417 0081 CP-05055 0085 Addition of specific Diameter codes for DSAI CP-05055 0089 Addition of Diameter Error Code for Emergency Purposes CP-05055 0089 Addition of Diameter Error Code for Emergency Purposes CP-05055 0089 Addition of new AVP code salues to 3GPP TS 29.230 7.6.0 CP-070020 0093 Allocation of success Result Code Range for Gi Interface CP-070312 0098 CP-070020 2005-09	CT#29			1		6.5.0	
CP-050310 0.056 Addition of Rx ref. point and renaming of Experimental Result Codes							
2005-09 CT#29 CP-050317 0055 Addition of GUSS timestamp AVP 7.0.0							
CP-050612 0058							
CP-050612 0063							
CP-050612 0065	2005-12	CT#30	CP-050624	0058			7.1.0
CP-050625 O066 Management of Sh subscriptions CP-060073 O069 Adding data type of some of WLAN-related AVPS CP-060084 O071 User-Data in the response to Sh-Subs-Notif			CP-050612	0063			
CF-060073 CF-060073 O069 Adding data type of some of WLAN-related AVPs CP-060084 O071 User-Data in the response to Sh-Subs-Notif CP-060084 O072 New error indications for the Sh-Subs-Notif procedure 7.3.0			CP-050612	0065		Reservation of AVP codes for 32.299	
CP-060084 0071 User-Data in the response to Sh-Subs-Notif			CP-050625	0066		Management of Sh subscriptions	
CP-060084 O72 1 New error indications for the Sh-Subs-Notif procedure	2006-03	CT#31	CP-060073	0069		Adding data type of some of WLAN-related AVPs	7.2.0
CP-060084 O72 1 New error indications for the Sh-Subs-Notif procedure			CP-060084	0071		User-Data in the response to Sh-Subs-Notif	
2006-06					1		
CT#33	2006-06	CT#32					7.3.0
CP-060417 0080 Errors to be sent in response to Sh-Notif	2006-09				3	New AVP Code	
CP-060417 O081 Definition of specific Diameter codes for DSAI							
CT#34							
CP-060562 0086	2006-12	CT#34			1		7.5.0
CP-060555 0087							
CP-060555 0089							
CP-060566 0091							
2007-03 CT#35 CP-070020 0093 C3 requested addition of new AVP code values to 3GPP TS 29.230 7.6.0 2007-06 CP-070020 0093 Allocation of new AVP code for DSAI-Tag AVP AVP for Gi Interface 2007-06 CP-070318 0096 Diameter application ID for the Rel-7 Rx interface 7.7.0 2007-09 CP-070312 0098 Experimental-Result-Codes for Gmb interface 7.7.0 2007-09 CP-070312 0100 Correction of Diameter AVP code allocation 7.8.0 2007-12 CT#38 CP-070743 0104 AVP code reservation for 32.299 in Rel-7 7.9.0 2007-12 CT#38 CP-070755 0101 4 AVP assignments to support SIP Digest Authentication 8.0.0 2008-03 CT#39 CP-080015 0109 Correction of reference to TS 29.140 8.1.0 2008-03 CT#40 CP-080019 0111 AVP code reservation for TS 32.299 in Rel-8 8.1.0 2008-04 CT#41 CP-080019 0111 AVP code reservation for TS 32.299 in Rel-8 8.1.0 2008-05 CT#41 CP-080267 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
CP-070020 0093	2007-03	CT#35				C3 requested addition of new AVP code values to 3GPP TS 29 230	7.6.0
CP-070020 0093 Allocation of Experimental-Result-Code AVP for Gi Interface 7.7.0		000				Allocation of new AVP code for DSAI-Tag AVP	7
CP-070318 0.096 Diameter application ID for the Rel-7 Rx interface CP-070312 0.098 Experimental-Result-Codes for Gmb interface CP-070312 0.0098 CP-070312 0.000 CP-070312 0.0100 Correction of Diameter AVP code allocation 7.8.0							
CP-070312 0098 Experimental-Result-Codes for Gmb interface CP-070312 0100 Correction of Diameter AVP code allocation 7.8.0	2007-06	CT#36					770
CP-070312 0100 Correction of Diameter AVP code allocation	2007-00	01#30					∃′./.0
2007-09 CT#37 CP-070527 0102 Application ID for Gx protocol 7.8.0 2007-12 CT#38 CP-070743 0104 AVP code reservation for 32.299 in Rel-7 7.9.0 2007-12 CT#38 CP-070755 0101 4 AVP assignments to support SIP Digest Authentication 8.0.0 2008-03 CT#39 CP-080015 0109 Correction of reference to TS 29.140 8.1.0 2008-03 CT#39 CP-080019 0101 AVP code reservation for TS 32.299 in Rel-8 8.1.0 2008-04 CP-080191 0111 AVP code reservation for TS 32.299 in Rel-8 8.1.0 2008-05 CP-080191 0112 AVP code reservation for TS 32.299 in Rel-8 8.1.0 2008-06 CT#40 CP-080401 0111 AVP code reservation for TS 32.299 in Rel-8 8.2.0 2008-07 CT#41 CP-080267 0111 AVP code reservation for TS 32.299 in Rel-8 8.2.0 2008-08-09 CT#41 CP-080460 0112 1 Correction on AVP code allocation reservation for TS 32.299 8.2.0 2008-09 C							
2007-12 CT#38 CP-070743 0104 AVP code reservation for 32.299 in Rel-7 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol AVP assignments to support SIP Digest Authentication 8.0.0	2007-09	CT#37					780
CT#38							
CP-070755 O101 4 AVP assignments to support SIP Digest Authentication 8.0.0	2001-12	01#30	OF-0/0/43			Allocation of 3GPD anacific AVD codes and Experimental Popult Codes for	1.5.0
CP-070755 O101 4 AVP assignments to support SIP Digest Authentication Ro.0				0103			
2008-03 CT#39	2007 12	CT#39	CD 070755	0101	1		800
2008-03 CT#39 CP-080015 0109 Correction of reference to TS 29.140 8.1.0 CP-080019 0111 AVP code reservation for TS 32.299 in Rel-8 AVP code reservation for TS 32.299 in Rel-8 CP-080191 0112 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 CP-080204 0113 1 Correction on AVP code allocation reservation for TS 32.299 2008-06 CT#40 CP-080267 0117 1 A new Diameter Permanent Failure Code for Gx 8.2.0 2008-09 CT#41 CP-080456 0119 Emergency Public User Identity Removal 8.3.0 2008-09 CT#41 CP-080460 0121 1 Support of "Loose-Route" indication from HSS 2008-09 CT#41 CP-080460 0122 1 STaMIP Application Id 2008-09 CT#41 CP-080463 0123 Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment) 2008-09 CT#41 CP-080463 0124 New AVP Code Assignment for Forking Service Restoration 8.3.0 2008-12 CT#42 CP-080691 0127 2	2007-12	C1#30	CF-070733		4		0.0.0
CP-080019 0111	2009 02	CT#20	CD 090015				0.1.0
CP-080019 0107 Wildcarded Public User Identities	2006-03	C1#39					0.1.0
CP-080191 0112 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7							_
CP-080204 0113 1 Correction on AVP code allocation reservation for TS 32.299					4		_
2008-06 CT#40 CP-080267 0117 1 A new Diameter Permanent Failure Code for Gx 8.2.0 2008-09 CT#41 CP-080456 0119 Emergency Public User Identity Removal 8.3.0 2008-09 CT#41 CP-080460 0121 1 Support of "Loose-Route" indication from HSS 2008-09 CT#41 CP-080460 0122 1 STAMIP Application Id 2008-09 CT#41 CP-080463 0123 Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment) 2008-12 CT#42 CP-080691 0127 2 Diameter Protocol Codes Assignments for 3GPP TS 29.273 8.4.0 2008-12 CT#42 CP-080691 0128 1 Diameter code assignments for 3GPP TS 29.273 8.4.0							_
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2008-09 CT#41 CP-080460 0122 1 STaMIP Application Id 2008-09 CT#41 CP-080463 0123 Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment) 2008-09 CT#41 CP-080463 0124 New AVP Code Assignment for Forking Service Restoration 8.3.0 2008-12 CT#42 CP-080691 0127 2 Diameter Protocol Codes Assignments for S6a/S6d/S13 8.4.0 2008-12 CT#42 CP-080691 0128 1 Diameter code assignments for 3GPP TS 29.273 8.4.0					<u> </u>		8.3.0
2008-09 CT#41 CP-080463 0123 Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment) 2008-09 CT#41 CP-080463 0124 New AVP Code Assignment for Forking Service Restoration 8.3.0 2008-12 CT#42 CP-080691 0127 2 Diameter Protocol Codes Assignments for S6a/S6d/S13 8.4.0 2008-12 CT#42 CP-080691 0128 1 Diameter code assignments for 3GPP TS 29.273 8.4.0							4
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2008-12 CT#42 CP-080691 0128 1 Diameter code assignments for 3GPP TS 29.273 8.4.0							_
					2		
2009-03 CT#43 CP-090044 0130 1 Update for ReadyForSM 8.5.0					1		
	2009-03	CT#43	CP-090044	0130	1	Update for ReadyForSM	8.5.0

2009-03	CT#43	CP-090044	0131	1	Handling LCS Subscription Data	8.5.0
2009-03	CT#43	CP-090026	0132		Update for Restoration	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.5.0
2009-03	CT#43	CP-090033		2	Appld and command code for Zpn	8.5.0
2009-03	CT#43	CP-090024			AVP codes for S9 protocol	8.5.0
2009-03	CT#43	CP-090024			Diameter AVP Code allocation	8.5.0
2009-03	CT#43	CP-090024			Location of Permanent Failure result code range for the S9 application	8.5.0
2009-03	CT#43	CP-090024		1	AVPs for TS 29.273	8.5.0
				4		
2009-03	CT#43	CP-090024			Error code allocation for authentication failure	8.5.0
2009-06	CT#44	CP-090299		4	Update of the AVP Codes	8.6.0
		CP-090299			AVP code reservation for TS 32.299	
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13'	
			0146		Removal of Requesting Node Type from AIR	
		CP-090299			S6b Application ID	
2009-09	CT#45	CP-090530	0149		Allocation of Experimental-Result-Codes for S9 protocol	8.7.0
		CP-090530	0152		AVP code allocation for TS 29.212	
		CP-090531	0150		Update of the AVP type for the User-Id	
		CP-090531	0153		Trace Depth per session	
2009-09	CT#45	CP-090557	0148		AVP code range for charging	9.0.0
2009-12	CT#46	CP-090800		1	ICS-Flag	9.1.0
	0	CP-091032			From GMLC-Address to GMLC-Number	00
		10.002	0160		Session-Priority AVP	1
			0163	2	Introduction of SLh application related AVPs and Experimental Result codes	=
			0166	_	Missing AVP error codes	=
		CP-090797		1	Introduction of SLg application related AVPs and Application Identifier	1
2010-03	CT#47	CP-100031	0158	1	Wildcarded Public Identity	9.2.0
_0.000	5.,,41	CP-100031		1	Correction on AVP code allocation reservation for TS 32.299 in Rel-9	5.2.0
		CP-100046			AVP code allocation for 29.172	
		CP-100036		'	GPL_U support in TS 29.109	
		CP-100036			Error codes in 29.172 for SLq	+
		CP-100048		1	AVPs in 29.272 for TADS support	+
		CP-100048		1	Error codes in 29.272 for Unknown MME	+
		CP-100040		1	EPS Subcsriber State and Location Information Request	+
		CP-100230		4	One time notification AVP allocation	+
		CP-100033			Addition of the LCS-QoS-Class attribute value	-
		CP-100046				_
2010.06	CT#48	CP-100175		4	Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC	9.3.0
2010-06	C1#48	CP-100263	0188	1	EPS state and location retrieval	9.3.0
		CD 400007				
		CP-100287		4	SGmb Application ID New APVs in S6a protocol	-
2040.00	CT#40	CP-100277				0.4.0
2010-09	CT#49	CP-100463		1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces	9.4.0
0040.00	OT#40	CP-100464			AVP Codes Allocation for PCC	40.00
2010-09	CT#49	CP-100465			SIPTO Permission Indicator	10.0.0
		CP-100466			Location data including only serving node address	
	0===	CP-100466			AVP for Update-Eff feature	
2010-12	C1#50	CP-100699			Enhanced SRVCC Subscriber Data	10.1.0
		CP-100687			Allocate codes for AVPs on eMPS	
		CP-100683			Allocate codes for AVPs on LIPA	_
		CP-100688			Periodic TAU/RAU timer in HSS subscription	4
201:	0	CP-100846		1	S6a Error Diagnostic	15 -
2011-03	CT#51	CP-110051			PDP-Address correction	10.2.0
		CP-110054			Essential correction on the value type of the ELP Application AVPs	
		CP-110087			Minimization of Drive Tests (MDT)	
		CP-110088			Relay Node Indicator AVPs	
2011-06	CT#52	CP-110349			Handling of RTR for Emergency Registration	10.3.0
		CP-110347		1	Add AVPs from QSPEC cleanup	
		CP-110359	0226		MIPv4 security parameters on the STa and S6b interfaces	
		CP-110380	0216		MDT user consent	
		CP-110370			AVP Code Allocation for Pre-paging	
		CP-110375		1	PUR-Flags AVP	
2011-09	CT#53	CP-110559			AVP code alignment with 29.212	10.4.0
		CP-110555			AVP code alignment with 32.299	1
		CP-110554			AVP code alignment with 29.214	
		CP-110552			Experimental Result Code Alignment with 29.061	7
		CP-110555			Failure code and AVP code alignment with 29.212	1
		CP-110722		2	Priviledged sender	1
2011-09	CT#53	CP-110584			Add vSRVCC updates to the Diameter AVP code table	11.0.0
	2 30	CP-110579		-	AVP code alignment with 32.299	1
		CP-110579			AVP code alignment with 32.299 AVP code reservation for 29.212	1
2011-12	CT#54	CP-110555		1	SWx Restoration AVPs	11.1.0
2011-12	U1#54			1		11.1.0
						-
						-
				4		-
2011-12	011104	CP-110812 CP-110775 CP-110775 CP-110786	0259 0262 0265		Sy and Sd Application IDs New AVP codes for MBMS IP unicast encapsulation New AVP codes for MBMS IP multicast encapsulation MME-Realm AVP code allocation	-

		CP-110811			Equivalent PLMN CSG Subscription Request	
		CP-110781	0281		Restoration of Wildcarded-IMPU AVP	
2012-03	CT#55	CP-120025		1	Codes Allocation for AVPs on Initial Attach	11.2.0
		CP-120038			New AVP codes for Absolute Time of MBMS Data Transfer over SGmb	
2012.06	CT#56	CP-120038 CP-120240			Allocating Diameter AVP codes for TS 29.219 and TS 29.212 Codes Allocation for AVPs on NPLI	11.3.0
2012-06	C1#56	CP-120240 CP-120238			Adding new Diameter AVPs to Diameter table to support Trusted WLAN	11.3.0
		CF-120230	0294	1	Access feature	
		CP-120225	0296	1	Trust Relationship Indication	
		CP-120251	0297		Corrections to reference titles	
		CP-120251	0298		Diameter Code Allocation for TS 29.219	
		CP-120247		-	Network Name AVP codes	
		CP-120219	0304	-	Duplicated AVP names	
2012-09	CT#57	CP-120481	0289		PS additional number allocation	11.4.0
		CP-120473			SMS in MME/SGSN	
		CP-120461		2	AAA Failure Recovery AVP codes	
		CP-120474		-	Transport Access Type AVP for BBAI	
		CP-120480		1	Local Time Zone	
		CP-120472		-	Allocating Application Identifier and command code for Tsp interface	
		CP-120472			Application Identifier, Command Codes and AVP range for S6m interface	
		CP-120667			GMLC-Name	
0040.40	OT#50	OD 400704	0313		Reference list correction to align with the corrected TS 29.212 title	44.5.0
2012-12	CT#58	CP-120731	0315		T4 device triggering via IMS	11.5.0
		CP-120731	0318		Codes and Identifier Allocation for T4 Specification	\dashv
		CP-120731	0324	_	AVP Code Allocation for 29.336	_
		CP-120731	0329	-	Diameter AVP code value allocation in TS 29.368	\dashv
		CP-120732 CP-120716			Application Identifier, Command Codes and AVP codes for SGd, S6c AVP name modification in TS 32.299	-
		CP-120716 CP-120742			UE Time Zone AVP	-
		CP-120742 CP-120741			Use of Flag instead of Enumerated AVPs	
		CP-120741		<u> </u>	Use of Flag instead of Enumerated AVPs	
		CP-120743		-	PSI direct routing with restoration procedures	
		CP-120743	333	-	EPS LocationInformation Support	
2013-03	CT#59	CP-130026			Diameter error code for TS 29.219	11.6.0
2010 00	017700	CP-130026		-	MDT parameters	- 11.0.0
2013-03	CT#59	CP-130156		1	New AVPs for Lgd interface	12.0.0
		CP-130030		-	Validity Time of Short Message	
2013-06	CT#60	CP-130288		1	Add new DER-S6b-flag AVP	12.1.0
				-	Failure Result Codes Allocation for TS 29.219	
		CP-130292	0358	-	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	2	New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over	
					Lgd interface	
		CP-130297			Application Port Identifier	
		CP-130374			MTRR on Sh	
		CP-130295			Restoration Priority during SGW and PGW restoration procedures	
0040.00	OT#04	CP-130378			SIPTO permission for Local Network enhancements	40.00
2013-09	CT#61	CP-130454			New MBMS flag for eMBMS restoration	12.2.0
		CP-130461 CP-130460	0366	-	AVP code reservation for TS 32.299 Rel-12	
2013-09		CP-130460	0368	-	Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment-Request/Answer	12.2.1
2013-09				-	corrected	12.2.1
2013-12	CT#62	CP-130624	0360		New AVP for optimized LCS procedure for combined MME/SGSN	12.3.0
2013-12	01#02		0369	1	Adding E-SMLC provided Cell info and Cell Portion	12.3.0
		CP-130631 CP-130800			New AVPs for SMS for IMS UE without MSISDN in TS 29.338	-
		CP-130600 CP-130600		1	Allocation of Diameter codes for 32.299	-
	1	101-10000	10010	<u> </u>	Allocation of Diameter codes for 29.212	+
						1
		CP-130605	0378	-		
2014-03	CT#63	CP-130605 CP-130639	0378 0380	- 2	SGSN CAMEL Subscription Indication	12 4 0
2014-03	CT#63	CP-130605 CP-130639 CP-140180	0378 0380 0381	2	SGSN CAMEL Subscription Indication Protocol enhancements for the support of device replace procedure	12.4.0
2014-03	CT#63	CP-130605 CP-130639 CP-140180 CP-140035	0378 0380 0381 0384	-	SGSN CAMEL Subscription Indication Protocol enhancements for the support of device replace procedure New AVP for the support of combined MME/SGSN	12.4.0
		CP-130605 CP-130639 CP-140180 CP-140035 CP-140023	0378 0380 0381 0384 0383	- 1	SGSN CAMEL Subscription Indication Protocol enhancements for the support of device replace procedure New AVP for the support of combined MME/SGSN Definition of WLAN-related AVPs	
	CT#63	CP-130605 CP-130639 CP-140180 CP-140035	0378 0380 0381 0384	- 1	SGSN CAMEL Subscription Indication Protocol enhancements for the support of device replace procedure New AVP for the support of combined MME/SGSN Definition of WLAN-related AVPs Protocol enhancements to indicate support of device recall and replace by	12.4.0
		CP-130605 CP-130639 CP-140180 CP-140035 CP-140023 CP-140211	0378 0380 0381 0384 0383 0385	- 1	SGSN CAMEL Subscription Indication Protocol enhancements for the support of device replace procedure New AVP for the support of combined MME/SGSN Definition of WLAN-related AVPs Protocol enhancements to indicate support of device recall and replace by SMS-SC	
		CP-130605 CP-130639 CP-140180 CP-140035 CP-140023 CP-140251 CP-140251	0378 0380 0381 0384 0383 0385	1 1 1	SGSN CAMEL Subscription Indication Protocol enhancements for the support of device replace procedure New AVP for the support of combined MME/SGSN Definition of WLAN-related AVPs Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic	
		CP-130605 CP-130639 CP-140180 CP-140035 CP-140023 CP-140211 CP-140257	0378 0380 0381 0384 0383 0385 0402 0391	- 1	SGSN CAMEL Subscription Indication Protocol enhancements for the support of device replace procedure New AVP for the support of combined MME/SGSN Definition of WLAN-related AVPs Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition	
		CP-130605 CP-130639 CP-140180 CP-140035 CP-140023 CP-140211 CP-140251 CP-140257 CP-140252	0378 0380 0381 0384 0383 0385 0402 0391 0392	1 1 1	SGSN CAMEL Subscription Indication Protocol enhancements for the support of device replace procedure New AVP for the support of combined MME/SGSN Definition of WLAN-related AVPs Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition Definition of AVPs for Network Location in TWLAN	
		CP-130605 CP-130639 CP-140180 CP-140035 CP-140221 CP-140251 CP-140257 CP-140252 CP-140236	0378 0380 0381 0384 0383 0385 0402 0391 0392 0399	1 1 1	SGSN CAMEL Subscription Indication Protocol enhancements for the support of device replace procedure New AVP for the support of combined MME/SGSN Definition of WLAN-related AVPs Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition Definition of AVPs for Network Location in TWLAN TWAN-BSSID AVP re-naming	
2014-03 2014-06		CP-130605 CP-130639 CP-140180 CP-140023 CP-140221 CP-140251 CP-140257 CP-140252 CP-140236 CP-140247	0378 0380 0381 0384 0383 0385 0402 0391 0392 0399 0397	1 1 1	SGSN CAMEL Subscription Indication Protocol enhancements for the support of device replace procedure New AVP for the support of combined MME/SGSN Definition of WLAN-related AVPs Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition Definition of AVPs for Network Location in TWLAN TWAN-BSSID AVP re-naming New AVPs for Trusted WLAN access	
2014-06	CT#64	CP-130605 CP-130639 CP-140180 CP-140035 CP-140221 CP-140251 CP-140257 CP-140252 CP-140236 CP-140247 CP-140231	0378 0380 0381 0384 0383 0385 0402 0391 0392 0399 0397 0390	- 1 1 1 - - - 1	SGSN CAMEL Subscription Indication Protocol enhancements for the support of device replace procedure New AVP for the support of combined MME/SGSN Definition of WLAN-related AVPs Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition Definition of AVPs for Network Location in TWLAN TWAN-BSSID AVP re-naming New AVPs for Trusted WLAN access Adding Codes for 29.214	12.5.0
		CP-130605 CP-130639 CP-140180 CP-140035 CP-140221 CP-140251 CP-140257 CP-140252 CP-140247 CP-140231 CP-140515	0378 0380 0381 0384 0383 0385 0402 0391 0392 0399 0397 0390 0403	- 1 1 1 - - - 1	SGSN CAMEL Subscription Indication Protocol enhancements for the support of device replace procedure New AVP for the support of combined MME/SGSN Definition of WLAN-related AVPs Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition Definition of AVPs for Network Location in TWLAN TWAN-BSSID AVP re-naming New AVPs for Trusted WLAN access Adding Codes for 29.214 T-GRUU restoration	
2014-06	CT#64	CP-130605 CP-130639 CP-140180 CP-140023 CP-140221 CP-140251 CP-140257 CP-140252 CP-140236 CP-140247 CP-140231 CP-140231 CP-140251 CP-140251 CP-140251	0378 0380 0381 0384 0383 0385 0402 0391 0392 0399 0397 0390 0403 0404	- 1 1 1 - - 1 1 1	SGSN CAMEL Subscription Indication Protocol enhancements for the support of device replace procedure New AVP for the support of combined MME/SGSN Definition of WLAN-related AVPs Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition Definition of AVPs for Network Location in TWLAN TWAN-BSSID AVP re-naming New AVPs for Trusted WLAN access Adding Codes for 29.214 T-GRUU restoration MB2-C codes	12.5.0
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History

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