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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

[16]

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.
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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*.

Release as in	te present wocumen.
[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: "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: "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: "Charging rule provisioning over Gx interface".

3GPP TS 29.140 Release 6: "Multimedia Messaging Service (MMS); MM10 interface based on

[17]	3GPP TS 29.211: "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".

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]

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	•			
303	Multimedia-Auth-Request/-Answer	MAR/MAA				
304	Registration-Termination-Request/-	RTR/RTA				
	Answer					
305	Push-Profile-Request/-Answer	PPR/PPA				
306	User-Data-Request/-Answer	UDR/UDA				
307	Profile-Update-Request/-Answer	PUR/PUA	20	11 000		
308	Subscribe-Notifications-Request/-Answer	SNR/SNA	29.329 [4]			
309	Push-Notification-Request/-Answer	PNR/PNA				
310	Boostrapping-Info-Request/Answer	BIR/BIA	29	.109 [7]		
•	311 Message-Process-	Request/Answer	, and the second	MPR/MP	Α	29.140 [16]
	312 GBAPush-Info-Rec	uest/Answer	, and the second	GPR/GF	וי	29.109 [7]

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS	
8388620	Provide-Location-Request/Answer	PLR/PLA	20 472 [24]	
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	29.212 [19]	
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	20 272 [24]	
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]	
8388639	Device-Action-Request/Answer	DAR/DAA	20 260 [27]	
8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]	
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]	
8388643	Device-Trigger-Request/Answer	DTR/DTA	29.337 [29]	
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]	

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	
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
	3GPP-WLAN-QoS-Filter-Support	OctetString	
Note:	The AVP codes from 1 to 255 are reserved for backwards compatib	ility with 3GPP RADIUS V	endor Specific
	ites (See TS 29.061 [13] and TS 29.234 [6])		
	The AVP codes from 256 to 299 are reserved for future use.		T
	Authentication-Method	Enumerated	
	Authentication-Information-SIM	OctetString	
	Authorization -Information-SIM	OctetString	_
	WLAN-User-Data	Grouped	
	Charging-Data	Grouped	_
	WLAN-Access	Enumerated	_
	WLAN- 3GPP-IP-Access	Enumerated	-
	APN-Authorized APN-Id	Grouped	-
	APN-Barring-Type	Enumerated	_
	WLAN-Direct-IP-Access	Enumerated	29.234 [6]
	Session-Request-Type	Enumerated	-
	Routing-Policy	IPFilterRule	-
	Max-Requested-Bandwidth	OctetString	1
	Charging-Characteristics	Integer	1
	Charging-Nodes	Grouped	_
	Primary-OCS-Charging-Function-Name	DiameterIdentity	1
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	1
	3GPP-AAA-Server-Name	DiameterIdentity	1
319	Maximum-Number-Accesses	Unsigned32	
	The AVP codes from 320 to 399 are reserved for TS 29.234		•
	GBA-UserSecSettings	OctetString	
	Transaction-Identifier	OctetString	_
	NAF-Hostname GAA-Service-Identifier	OctetString OctetString	-
	Key-ExpiryTime	Time	-
405	ME-Key-Material	OctetString	_
	UICC-Key-Material	OctetString	
	GBA_U-Awareness-Indicator	Enumerated	_
408	BootstrapInfoCreationTime GUSS-Timestamp	Time Time	-
410	GBA-Type	Enumerated	29.109 [7]
411	UE-Id	OctetString	
412	UE-Id-Type	Enumerated	
	UICC-App-Label	OctetString	
414	UICC-ME Requested-Key-Lifetime	Enumerated Time	
416	Private-Identity-Request	Enumerated	_
	GBA-Push-Info	OctetString	1
418	NAF-SA-Identifier	OctetString	1
419	Security-Feature-Request	OctetString	
	Security-Feature-Response	OctetString	
	The AVP codes from 421 to 499 are reserved for TS 29.109		1
	Abort-Cause Access-Network-Charging-Address	Enumerated	-
	Access-Network-Charging-Address Access-Network-Charging-Identifier	Address Grouped	-
	Access-Network-Charging-Identifier-Value	OctetString	+
	AF-Application-Identifier	OctetString	1
	AF-Charging-Identifier	OctetString	†
	Authorization-Token	OctetString	1
	Flow-Description	IPFilterRule	29.209 [8],
	Flow-Grouping	Grouped	29.211 [17] ,
	Flow-Number	Unsigned32	29.214 [18]
	Flows	Grouped] ''
	Flow-Status	Enumerated	7
	Flow-Usage	Enumerated	
	Specific-Action	Enumerated	
	Max-Requested-Bandwidth	Unsigned32	_
	Max-Requested-Bandwidth-DL	Unsigned32	_
516	Max-Requested-Bandwidth-UL	Unsigned32	

	Media-Component-Description	Grouped	
	Media-Component-Number	Unsigned32	
	Media-Sub-Component AVP	Grouped	
	Media-Type	Enumerated	
	RR-Bandwidth	Unsigned32	
	RS-Bandwidth	Unsigned32	
523	SIP-Forking-Indication	Enumerated	
524	Codec-Data	OctetString	
525	Service-URN	OctetString	
526	Acceptable-Service-Info	Grouped	
527	Service-Info-Status	Enumerated	
528	MPS-Identifier	OctetString	
529	AF-Signalling-Protocol	Enumerated	
	Sponsored-Connectivity-Data	Grouped	
	Sponsor-Identity	OctetString	
	Application-Service-Provider-Identity	OctetString	
	Rx-Request-Type	Enumerated	
	Min-Requested-Bandwidth-DL	Unsigned32	
	Min-Requested-Bandwidth-UL	Unsigned32	
	Required-Access-Info	Enumerated	
	IP-Domain-Id	OctetString	
	The AVP codes from 538 to 599 are reserved for TS 29.209, TS 29.2		
	Visited-Network-Identifier	OctetString	
	Public-Identity	UTF8String	
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
	SIP-Number-Auth-Items		
	SIP-Number-Autr-items SIP-Authentication-Scheme	Unsigned32	
		UTF8String	
	SIP-Authenticate	OctetString	
	SIP-Authorization	OctetString	
	SIP-Authentication-Context	OctetString	
	SIP-Auth-Data-Item	Grouped	
	SIP-Item-Number	Unsigned32	
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
	Reason-Info	UTF8String	
618	Charging-Information	Grouped	
	Primary-Event-Charging-Function-Name	DiameterURI	
	Secondary-Event-Charging-Function-Name	DiameterURI	
	Primary-Charging-Collection-Function-Name	DiameterURI	29.229 [2]
	Secondary-Charging-Collection-Function-Name	DiameterURI	
	User-Authorization-Type	Enumerated	
624	User-Data-Already-Available	Enumerated	
	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
	Supported-Applications	Grouped	
	Associated-Identities	Grouped	
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
	SCSCF-Restoration-Info	Grouped	
	Path	OctetString	
	Contact Subscription Info	OctetString	
642	Subscription-Info	Grouped	

	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	
	Record-Route	OctetString	
	Associated-Registered-Identities	Grouped	
	Multiple-Registration-Indication	Enumerated	
	Restoration-Info	Grouped	
	Session-Priority	Enumerated	
	Identity-with-Emergency-Registration	Grouped	
	Priviledged-Sender-Indication	Enumerated	
	LIA-Flags The AVP codes from 654 to 699 are reserved for TS 29.229.	Unsigned32	
		Crowned	
	User-Identity	Grouped	
	MSISDN Llear Date	OctetString	
	User-Data Data-Reference	OctetString	
		Enumerated	
	Service-Indication Subs-Req-Type	OctetString Enumerated	
	Requested-Domain	Enumerated	
	Current-Location	Enumerated	
	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	29.329 [4]
	One-Time-Notification	Enumerated	20.020 [4]
	Requested-Nodes	Unsigned32	
	Serving-Node-Indication	Enumerated	
	Repository-Data-ID	Grouped	
	Sequence-Number	Unsigned32	
	Pre-paging-Supported	Enumerated	
	Local-Time-Zone-Indication	Enumerated	
	UDR-Flags	Unsigned32	
	Call-Reference-Info	Grouped	
721	Call-Reference-Number	l OctetString	
	Call-Reference-Number AS-Number	OctetString OctetString	
722	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329.	OctetString OctetString	
722 Note:	AS-Number		
722 Note: Note:	AS-Number The AVP codes from 723 to 799 are reserved for TS 29.329.		
722 Note: Note: 823	AS-Number 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.	OctetString	
722 Note: Note: 823 824 825	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event	OctetString Grouped	
722 Note: Note: 823 824 825	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method	Grouped UTF8String UTF8String UTF8String	
722 Note: Note: 823 824 825 826 827	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length	Grouped UTF8String UTF8String	
722 Note: Note: 823 824 825 826 827 828	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String	
722 Note: Note: 823 824 825 826 827 828 829	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated	
722 Note: Note: 823 824 825 826 827 828 829	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String	
722 Note: Note: 823 824 825 826 827 828 829 830 831	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String	
722 Note: Note: 823 824 825 826 827 828 829 830 831	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String	
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String Grouped	
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String	
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String	
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String	32.299 [5]
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Provided-called-party-address	Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String Enumerated UTF8String	32.299 [5]
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-provided-called-party-address Inter-Operator-Identifier	Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String UTF8String	32.299 [5]
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI	Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String UTF8String UTF8String	32.299 [5]
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI	Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String	32.299 [5]
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier	Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String	32.299 [5]
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String	32.299 [5]
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Component	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String	32.299 [5]
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Name	Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String	32.299 [5]
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Name SDP-Media-Description	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped UTF8String	32.299 [5]
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Name SDP-Media-Description CG-Address	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String	32.299 [5]
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Name SDP-Media-Description CG-Address GGSN-Address	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String Grouped Time Time UTF8String	32.299 [5]
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Component SDP-Media-Name SDP-Media-Description CG-Address GGSN-Address Served-Party-IP-Address	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String Address Address Address	32.299 [5]
722 Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847	AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Name SDP-Media-Description CG-Address GGSN-Address	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String Grouped Time Time UTF8String	32.299 [5]

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	Trunk-Group-Id	Grouped	
	Incoming-Trunk-Group-Id	UTF8String	
	Outgoing-Trunk-Group-Id	UTF8String	
	Bearer-Service	OctetString	
	Service-Id	UTF8String	
	Associated-URI	UTF8String	
	Charged-Party	UTF8String	
858	PoC-Controlling-Address	UTF8String	
859	PoC-Group-Name	UTF8String	
860	Cause	Grouped	
861	Cause-Code	Integer32	
862	Node-Functionality	Enumerated	
863	Service-Specific-Data	UTF8String	
	Originator	Enumerated	
	PS-Furnish-Charging-Information	Grouped	
	PS-Free-Format-Data	OctetString	
	PS-Append-Free-Format-Data	Enumerated	
868	Time-Quota-Threshold	Unsigned32	
	Volume-Quota-Threshold	Unsigned32	
	Trigger-Type	Enumerated	
	Quota-Holding-Time	Unsigned32	
	Reporting-Reason	Enumerated	
	Service-Information	Grouped	
	PS-Information	Grouped	
	WLAN-Information	Grouped	
	IMS-Information	Grouped	
	MMS-Information	Grouped	
	LCS-Information		
		Grouped	
	PoC-Information	Grouped	
	MBMS-Information	Grouped	
	Quota-Consumption-Time	Unsigned32	
	Media-Initiator-Flag	Enumerated	
	PoC-Server-Role	Enumerated	
	PoC-Session-Type	Enumerated	
	Number-Of-Participants	Unsigned32	
	Originator-Address	Grouped	
	Participants-Involved	UTF8String	
	Expires	Unsigned32	
	Message-Body	Grouped	
	WAG-Address	Address	
	WAG-PLMN-Id	OctetString	
	WLAN-Radio-Container	Grouped	
893	WLAN-Technology	Unsigned32	
	WLAN-UE-Local-IPAddress	Address	
	PDG-Address	Address	
896	PDG-Charging-Id	Unsigned32	
897	Address-Data	UTF8String	
	Address-Domain	Grouped	
	Address-Type	Enumerated	
900	TMGI	OctectString	
	Required-MBMS-Bearer-Capabilities	UTF8String	
	MBMS-StartStop-Indication	Enumerated	
	MBMS-Service-Area	OctectString	
	MBMS-Session-Duration	Unsigned32	
	Alternative-APN	UTF8String	
	MBMS-Service-Type	Enumerated	
	MBMS-2G-3G-Indicator	Enumerated	29.061 [13]
	MBMS-Session-Identity		23.001 [13]
		OctetString	
909		UTF8String	
	Additional-MBMS-Trace-Info	OctetString	
	MBMS-Time-To-Data-Transfer	Unsigned32	
	MBMS-Session-Identity-Repetition-Number	Unsigned32	
	MBMS-Required-QoS	UTF8String	
914	MBMS-Counting-Information	Enumerated	

	MBMS-User-Data-Mode-Indication	Enumerated	
	MBMS-GGSN-Address	UTF8String	
	MBMS-GGSN-IPv6-Address	UTF8String	
	MBMS-BMSC-SSM-IP-Address	UTF8String	
	MBMS-BMSC-SSM-IPv6-Address	UTF8String	
920	MBMS-Flow-Identifier	OctetString	
921	CN-IP-Multicast-Distribution	Enumerated	
922	MBMS-HC-Indicator	Enumerated	
923	MBMS-Access-Indicator	Enumerated	
924	MBMS-GW-SSM-IP-Address	OctetString	
925	MBMS-GW-SSM-IPv6-Address	OctetString	
926	MBMS-BMSC-SSM-UDP-Port	OctetString	
927	MBMS-GW-UDP-Port	OctetString	
928	MBMS-GW-UDP-Port-Indicator	Enumerated	
929	MBMS-Data-Transfer-Start	Unsigned64	
	MBMS-Data-Transfer-Stop	Unsigned64	
	The AVP codes from 929 to 999 are reserved for TS 29.061	3	
	Bearer-Usage	Enumerated	
	Charging-Rule-Install	Grouped	
	Charging-Rule-Remove	Grouped	
	Charging-Rule-Definition	Grouped	
	Charging-Rule-Base-Name	UTF8String	
	Charging-Rule-Dase-Name Charging-Rule-Name	OctetString	
	Event-Trigger	Enumerated	
	Metering-Method	Enumerated	
	Offline	Enumerated	
	Online	Enumerated	
	Precedence	Unsigned32	
	Reporting-Level	Enumerated	
	TFT-Filter	IPFilterRule	
	TFT-Packet-Filter-Information	Grouped	
	ToS-Traffic-Class	OctetString	
	QoS-Information		
		Grouped	
	Charging-Rule-Report	Grouped	
	PCC-Rule-Status	Enumerated	
	Bearer-Identifier	OctetString	
	Bearer-Operation	Enumerated	
	Access-Network-Charging-Identifier-Gx	Grouped	
	Bearer-Control-Mode	Enumerated	
	Network-Request-Support	Enumerated	
	Guaranteed-Bitrate-DL	Unsigned32	29.212 [19]
	Guaranteed-Bitrate-UL	Unsigned32	
	IP-CAN-Type	Enumerated	
	QoS-Class-Identifier	Enumerated	
	QoS-Negotiation	Enumerated	
	QoS-Upgrade	Enumerated	
	Rule-Failure-Code	Enumerated	
	RAT-Type	Enumerated	
	Event-Report-Indication	Grouped	
	Allocation-Retention-Priority	Grouped	
	CoA-IP-Address	Address	
	Tunnel-Header-Filter	IPFilterRule	
	Tunnel-Header-Length	Unsigned32	
	Tunnel-Information	Grouped	
	CoA-Information	Grouped	
	APN-Aggregate-Max-Bitrate-DL	Unsigned32	
	APN-Aggregate-Max-Bitrate-UL	Unsigned32	
	Revalidation-Time	Time	
	Rule-Activation-Time	Time	
	Rule-DeActivation-Time	Time	
	Session-Release-Cause	Enumerated	
	Priority-Level	Unsigned32	
	Pre-emption-Capability	Enumerated	
	Pre-emption-Vulnerability	Enumerated	
	Default-EPS-Bearer-QoS	Grouped	

4050 441 0144 4 1 1	T I	
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	
1000 Packet-Filter-Information		
	Grouped	
1062 Packet-Filter-Operation	Enumerated	
1063 Resource-Allocation-Notification	Enumerated	
1064 Session-Linking-Indicator	Enumerated	
1065 PDN-Connection-ID	OctetString	
1066 Monitoring-Key	OctetString	
1067 Usage-Monitoring-Information	Grouped	
1068 Usage-Monitoring-Level	Enumerated	
1069 Usage-Monitoring-Report	Enumerated	
1070 Usage-Monitoring-Neport	Enumerated	
1070 Osage-Worldoring-Support		
	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	
1085 Redirect-Information	Grouped	
1086 Redirect- Support	Enumerated	
1087 TDF-Information	Grouped	
1088 TDF-Application-Identifier	OctetString	
1089 TDF-Destination-Host	DiameterIdentity	
1090 TDF-Destination-Realm	DiameterIdentity	
1091 TDF-IP-address	Address	
1092 ADC-Rule-Install	Grouped	
1093 ADC-Rule-Remove	Grouped	
1094 ADC-Rule-Definition	Grouped	
1095 ADC-Rule-Base-Name	UTF8String	
1096 ADC-Rule-Name	OctetString	
1097 ADC-Rule-Report	Grouped	
1098 Application-Detection-Information	Grouped	
1099 PS-to-CS-Session-Continuity	Enumerated	
Note: The AVP codes from 1082 to 1084 are reserved for TS 29.212		
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	29.140 [16]
1109 Routeing-Address	UTF8String	[. 0]
1110 Originating-Interface	Enumerated	
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key		
	UTF8String	
1115 Billing-Information	UTF8String UTF8String	

	Status-Code	UTF8String	
	Status-Text T0 and 44	UTF8String	
	The AVP codes from 1119 to 1199 are reserved for TS 29.140	LITEOU :	
	Domain-Name	UTF8String	
	Recipient-Address	Grouped	
	Submission-Time	Time	
	MM-Content-Type	Grouped Enumerated	
	Type-Number Additional-Type-Information	UTF8String	
	Content-Size	Unsigned32	
	Additional-Content-Information	Grouped	
	Addressee-Type	Enumerated	
	Priority	Enumerated	
	Message-ID	UTF8String	
	Message-Type	Enumerated	
	Message-Size	Unsigned32	
	Message-Class	Grouped	
	Class-Identifier	Enumerated	
1215	Token-Text	UTF8String	
	Delivery-Report-Requested	Enumerated	
	Adaptations	Enumerated	
	Applic-ID	UTF8String	
	Aux-Applic-Info	UTF8String	
	Content-Class	Enumerated	
	DRM-Content	Enumerated	
	Read-Reply-Report-Requested	Enumerated	
	Reply-Applic-ID	UTF8String	
	File-Repair-Supported	Enumerated	
	MBMS-User-Service-Type	Enumerated	
	Unit-Quota-Threshold	Unsigned32	
	PDP-Address	Address	
	SGSN-Address PoC-Session-Id	Address	
	Deferred-Location-Even-Type	UTF8String UTF8String	
	LCS-APN	UTF8String	32.299 [5]
	LCS-Client-Id	Grouped	
	LCS-Client-Dialed-By-MS	UTF8String	
	LCS-Client-External-ID	UTF8String	
	LCS-Client-Name	Grouped	
	_CS-Data-Coding-Scheme	UTF8String	
	_CS-Format-Indicator	Enumerated	
	_CS-Name-String	UTF8String	
1239 l	_CS-Requestor-Id	Grouped	
	_CS-Requestor-Id-String	UTF8String	
	_CS-Client-Type	Enumerated	
	Location-Estimate	OctetString	
	Location-Estimate-Type	Enumerated	
	_ocation-Type	Grouped	
	Positioning-Data	UTF8String	
	WLAN-Session-Id	UTF8String	
	PDP-Context-Type	Enumerated	
	MMBox-Storage-Requested	Enumerated	
	Service-Specific-Info	Grouped	
	Called-Asserted-Identity Requested-Party-Address	UTF8String UTF8String	
	Requested-Party-Address PoC-User-Role	Grouped	
	PoC-User-Role-IDs	UTF8String	
	PoC-User-Role-info-Units	Enumerated	
	Talk-Burst-Exchange	Grouped	
	Service-Generic-Information	Grouped	
	Service-Specific-Type	Unsigned32	
	Event-Charging-TimeStamp	Time	
	Participant-Access-Priority	Enumerated	
	Participant-Group	Grouped	
	PoC-Change-Conditions	Enumerated	
	-		

1262 PoC-Change-Time	Time	
1263 Access-Network-Information	OctetString	
1264 Trigger	Grouped	
1265 Base-Time-Interval	Unsigned32	
1266 Envelope	Grouped	
1267 Envelope-End-Time	Time	
1268 Envelope-Reporting	Enumerated	
1269 Envelope-Start-Time	Time	
1270 Time-Quota-Mechanism	Grouped	
1271 Time-Quota-Type	Enumerated	
1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps	Grouped	
1274 SDP-Offer-Timestamp	Time	
1275 SDP-Answer-Timestamp	Time	
1276 AF-Correlation-Information	Grouped	
1277 PoC-Session-Initiation-type	Enumerated	
1278 Offline-Charging	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
Note: The AVP codes from 1289 to 1399 are reserved for TS 32		
1400 Subscription-Data	Grouped	
1400 Subscription-Data 1401 Terminal-Information	Grouped	
1401 Terminal-Information	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	29.272 [21]
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
1426 Access-Restriction-Data	UTF8String	
1427 APN-OI-Replacement	UTF8String	
1428 All-APN-Configurations-Included-Indicator	Enumerated	
1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile	Grouped	
1432 VPLMN-Dynamic-Address-Allowed	Enumerated	
1433 STN-SR	OctetString	
1434 Alert-Reason	Enumerated	
1435 AMBR	Grouped	
1436 CSG-Subscription-Data	Grouped	
Joe outcompaint batta	Cicapoa	

1437 CSG-Id	Unsigned32	
1438 PDN-GW-Allocation-Type	Enumerated	
1439 Expiration-Date	Time	
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32	
1441 IDA-Flags	Unsigned32	
1442 PUA-Flags	Unsigned32	
1443 NOR-Flags	Unsigned32	
1444 User-Id	UTF8String	
1445 Equipment-Status	Enumerated	
1445 Equipment-Status 1446 Regional-Subscription-Zone-Code		
	OctetString OctetString	
1447 RAND		
1448 XRES	OctetString	
1449 AUTN	OctetString	
1450 KASME	OctetString	
1451 Reserved	-	
1452 Trace-Collection-Entity	Address	
1453 Kc	OctetString	
1454 SRES	OctetString	
1455 Reserved	-	
1456 PDN-Type	Enumerated	
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated	
1458 Trace-Data	Grouped	
1459 Trace-Reference	OctetString	
1460 Reserved	-	
1461 Reserved	-	
1462 Trace-Depth	Enumerated	
1463 Trace-NE-Type-List	OctetString	
1464 Trace-Interface-List	OctetString	
1465 Trace-Event-List	OctetString	
1466 OMC-Id	OctetString	
1467 GPRS-Subscription-Data	Grouped	
1468 Complete-Data-List-Included-Indicator	Enumerated	
1469 PDP-Context	Grouped	
1470 PDP-Type	OctetString	
1471 3GPP2-MEID	OctetString	
1472 Specific-APN-Info	Grouped	
1473 LCS-Info	Grouped	
1474 GMLC-Number	OctetString	
1475 LCS-PrivacyException	Grouped	
1476 SS-Code	OctetString	
1477 SS-Status	OctetString	
1477 S5-Status		
	Enumerated	
1479 External-Client	Grouped	
1480 Client-Identity	OctetString	
1481 GMLC-Restriction	Enumerated	
1482 PLMN-Client	Enumerated	
1483 Service-Type	Grouped	
1484 ServiceTypeIdentity	Unsigned32	
1485 MO-LR	Grouped	
1486 Teleservice-List	Grouped	
1487 TS-Code	Enumerated	
1488 Call-Barring-Info	Grouped	
1489 SGSN-Number	OctetString	
1490 IDR-Flags	Unsigned32	
1491 ICS-Indicator	Enumerated	
1492 IMS-Voice-Over-PS-Sessions-Supported	Enumerated	
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated	
1494 Last-UE-Activity-Time	Time	
1495 EPS-User-State	Grouped	
1496 EPS-Location-Information	Grouped	
1497 MME-User-State	Grouped	
1498 SGSN-User-State	Grouped	
1499 User-State	Enumerated	
		I
1500 Non-3GPP-User-Data	Grouped	29.273 [20]
1000 p.1011 001 1 0001 Data	Grouped	20.210 [20]

1502 Non-3GPP-IP-Access-APN	1501 Non-3GPP-IP-Access	Enumerated	
1503 AN-Trusted			
1596 Trace-Info			
1505 MIP-FA-RK			
1506 MP-FA-RK OctelString			
1507 MIP-FA-RK-SP			
1509 MAN-Ledentife			
1509 W.A.N-Ledentifier			
1510 MVAN-Access-Info		·	
1511 Access-Authorization-Flags			
1513 Reserved			
1513 Reserved			
1515 Reserved		Unsigned32	
1515 Reserved		-	
1516 Full-Network-Name		-	
1517 Short-Network-Name		-	
1518 AAA-Failure-Indication			
1519 Transport-Access-Type			
1520 DER-Flags			
Insigned Unsigned Unsigned			
1522 RAR-Flags			
1523 DER-S6b-Flags			
1524 SSID			
Note: The AVP codes from 1526 to 1599 are reserved for TS 29.273			
Note: The AVP codes from 1526 to 1599 are reserved for TS 29.273			
		UTF8String	
Fig. 1 SGSN-Location-Information			
Folia Fundamental Fundam			
Tracking-Area-Identity		Grouped	
1604 Cell-Global-Identity	1602 E-UTRAN-Cell-Global-Identity	OctetString	
1605 Routing-Area-Identity	1603 Tracking-Area-Identity	OctetString	
1606 Location-Area-Identity	1604 Cell-Global-Identity	OctetString	
1606 Location-Area-Identity	1605 Routing-Area-Identity	OctetString	
1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString 1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 SIPTO-Permission Enumerated 1614 Error-Diagnostic Enumerated 1615 UE-SRVCC-Capability Unsigned32 1617 VPLMN-LIPA-Allowed Enumerated 1618 LIPA-Permission Enumerated 1619 Subscribed-Periodic-RAU-TAU-Timer Unsigned32 1620 Ext-PDP-Type OctetString 1621 Ext-PDP-Address Address 1622 MDT-Configuration Grouped 1623 Job-Type Enumerated 1624 Area-Scope Grouped 1625 List-Of-Measurements Unsigned32 1626 Report-Interval Enumerated 1628 Report-Interval 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 Eguvalent-PLMN-List Grouped 1637 Equivalent-PLMN-List Grouped 1637 Equivalent-PLMN-List Grouped 1637 Equivalent-PLMN-List Grouped 1638 Grouped Grouped Grouped 1637 Equivalent-PLMN-List Grouped 1638 Grouped Grouped Grouped 1639 Equivalent-PLMN-List Grouped 1630 Control Contro		OctetString	
1609 Geodetic-Information	1607 Service-Area-Identity	OctetString	
1609 Geodetic-Information		-	
1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 SIPTO-Permission Enumerated 1614 Error-Diagnostic Enumerated 1615 UE-SRVCC-Capability Enumerated 1616 UE-SRVCC-Capability Unsigned32 1617 VPLMN-LIPA-Allowed Enumerated 1618 LIPA-Permission Enumerated 1619 Subscribed-Periodic-RAU-TAU-Timer Unsigned32 1620 Ext-PDP-Type OctetString 1621 Ext-PDP-Address Address Address Address 1622 MDT-Configuration Grouped 1623 Job-Type Enumerated 1624 Area-Scope Grouped 1625 List-Of-Measurements Unsigned32 1626 Report-Interval Enumerated 1628 Report-Interval Enumerated 1629 Event-ThresholdRSRP Unsigned32 1620 Event-ThresholdRSRQ Unsigned32 1631 Logging-Interval Enumerated 1632 Logging-Interval Enumerated 1633 Logging-Interval Enumerated 1634 Logging-Interval Enumerated 1635 PUR-Flags Unsigned32 1636 Subscribed-VSRVCC Enumerated 1637 Equivalent-PLMN-List Grouped 1638 Equivalent-PLMN-List Grouped 1639 Equivalent-PLMN-List Grouped 1630 Equivalent-PLMN-List Enumerated 1637 Equivalent-PLMN-List Grouped 1630 Equivalent-PLMN-List Enumerated 1637 Equivalent-PLMN-List Grouped 1630 Expendent Enumerated 1638 Equivalent-PLMN-List Grouped 1630 Expendent Enumerated 1638 Equivalent-PLMN-List Enumerated 1630 Equivalent-PLMN-List			
1611 Age-Of-Location-Information Grouped 1613 Active-APN Grouped 1614 Error-Diagnostic Enumerated 1615 UE-SRVCC-Capability Enumerated 1616 MPS-Priority Unsigned32 1617 VPLMN-LIPA-Allowed Enumerated 1618 LIPA-Permission Enumerated 1619 Subscribed-Periodic-RAU-TAU-Timer Unsigned32 1620 Ext-PDP-Type OctetString 1621 Ext-PDP-Address Address 1622 MDT-Configuration Grouped 1623 Job-Type Enumerated 1624 Area-Scope Grouped 1625 List-Of-Measurements Unsigned32 1626 Report-Interval 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 Equivalent-PLMN-List Grouped 1636 Equivalent-PLMN-List Grouped 1637 Equivalent-PLMN-List Grouped 1638 Equivalent-PLMN-List Grouped 1639 Equivalent-PLMN-List Grouped 1630 Equivalent-PLMN-List Grouped 1631 Equivalent-PLMN-List Grouped 1632 Logging-Duration Enumerated 1633 Equivalent-PLMN-List Grouped 1634 Equivalent-PLMN-List Grouped 1635 Equivalent-PLMN-List Grouped 1636 Equivalent-PLMN-List Grouped 1637 Equivalent-PLMN-List Grouped 1638 Equivalent-PLMN-List Grouped 1639 Enumerated Enumerated 1630 Equivalent-PLMN-List Grouped 1630 Equivalent-PLMN-List Grouped Enumerated 1631 Equivalent-PLMN-List Grouped Enumerated 1632 Equivalent-PLMN-List Grouped Enumerated 1633 Equivalent-PLMN-List Grouped Enumerated 1634 Equivalent-PLMN-List Grouped Enumerated 1635 Equivalent-PLMN-List Grouped Enumerated 1636 Equivalent-PLMN-List Grouped Enumerated 1637 Equivalent-PLMN-List Grouped Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated			
1612 Active-APN	1611 Age-Of-Location-Information		
1614 Error-Diagnostic			
1614 Error-Diagnostic	1613 SIPTO-Permission	Enumerated	
1615 UE-SRVCC-Capability			
1616 MPS-Priority			
1617 VPLMN-LIPA-Allowed			
1618LIPA-PermissionEnumerated1619Subscribed-Periodic-RAU-TAU-TimerUnsigned321620Ext-PDP-TypeOctetString1621Ext-PDP-AddressAddress1622MDT-ConfigurationGrouped1623Job-TypeEnumerated1624Area-ScopeGrouped1625List-Of-MeasurementsUnsigned321626Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated1632Logging-DurationEnumerated1633Relay-Node-IndicatorEnumerated1634MDT-User-ConsentEnumerated1635PUR-FlagsUnsigned321636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped		·	
1619Subscribed-Periodic-RAU-TAU-TimerUnsigned321620Ext-PDP-TypeOctetString1621Ext-PDP-AddressAddress1622MDT-ConfigurationGrouped1623Job-TypeEnumerated1624Area-ScopeGrouped1625List-Of-MeasurementsUnsigned321626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated1632Logging-DurationEnumerated1633Relay-Node-IndicatorEnumerated1634MDT-User-ConsentEnumerated1635PUR-FlagsUnsigned321636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped			
1620Ext-PDP-TypeOctetString1621Ext-PDP-AddressAddress1622MDT-ConfigurationGrouped1623Job-TypeEnumerated1624Area-ScopeGrouped1625List-Of-MeasurementsUnsigned321626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated1632Logging-DurationEnumerated1633Relay-Node-IndicatorEnumerated1634MDT-User-ConsentEnumerated1635PUR-FlagsUnsigned321636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped			29.272 [21]
1621Ext-PDP-AddressAddress1622MDT-ConfigurationGrouped1623Job-TypeEnumerated1624Area-ScopeGrouped1625List-Of-MeasurementsUnsigned321626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated1632Logging-DurationEnumerated1633Relay-Node-IndicatorEnumerated1634MDT-User-ConsentEnumerated1635PUR-FlagsUnsigned321636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped			
1622MDT-ConfigurationGrouped1623Job-TypeEnumerated1624Area-ScopeGrouped1625List-Of-MeasurementsUnsigned321626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated1632Logging-DurationEnumerated1633Relay-Node-IndicatorEnumerated1634MDT-User-ConsentEnumerated1635PUR-FlagsUnsigned321636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped		Ŭ	
1623Job-TypeEnumerated1624Area-ScopeGrouped1625List-Of-MeasurementsUnsigned321626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated1632Logging-DurationEnumerated1633Relay-Node-IndicatorEnumerated1634MDT-User-ConsentEnumerated1635PUR-FlagsUnsigned321636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped			
1624 Area-ScopeGrouped1625 List-Of-MeasurementsUnsigned321626 Reporting-TriggerUnsigned321627 Report-IntervalEnumerated1628 Report-AmountEnumerated1629 Event-ThresholdRSRPUnsigned321630 Event-ThresholdRSRQUnsigned321631 Logging-IntervalEnumerated1632 Logging-DurationEnumerated1633 Relay-Node-IndicatorEnumerated1634 MDT-User-ConsentEnumerated1635 PUR-FlagsUnsigned321636 Subscribed-VSRVCCEnumerated1637 Equivalent-PLMN-ListGrouped			
1625List-Of-MeasurementsUnsigned321626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated1632Logging-DurationEnumerated1633Relay-Node-IndicatorEnumerated1634MDT-User-ConsentEnumerated1635PUR-FlagsUnsigned321636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped			
1626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated1632Logging-DurationEnumerated1633Relay-Node-IndicatorEnumerated1634MDT-User-ConsentEnumerated1635PUR-FlagsUnsigned321636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped			
1627 Report-IntervalEnumerated1628 Report-AmountEnumerated1629 Event-ThresholdRSRPUnsigned321630 Event-ThresholdRSRQUnsigned321631 Logging-IntervalEnumerated1632 Logging-DurationEnumerated1633 Relay-Node-IndicatorEnumerated1634 MDT-User-ConsentEnumerated1635 PUR-FlagsUnsigned321636 Subscribed-VSRVCCEnumerated1637 Equivalent-PLMN-ListGrouped			
1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated1632Logging-DurationEnumerated1633Relay-Node-IndicatorEnumerated1634MDT-User-ConsentEnumerated1635PUR-FlagsUnsigned321636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped	1 0 00		
1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated1632Logging-DurationEnumerated1633Relay-Node-IndicatorEnumerated1634MDT-User-ConsentEnumerated1635PUR-FlagsUnsigned321636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped			
1630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated1632Logging-DurationEnumerated1633Relay-Node-IndicatorEnumerated1634MDT-User-ConsentEnumerated1635PUR-FlagsUnsigned321636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped			
1631Logging-IntervalEnumerated1632Logging-DurationEnumerated1633Relay-Node-IndicatorEnumerated1634MDT-User-ConsentEnumerated1635PUR-FlagsUnsigned321636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped			
1632Logging-DurationEnumerated1633Relay-Node-IndicatorEnumerated1634MDT-User-ConsentEnumerated1635PUR-FlagsUnsigned321636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped			
1633Relay-Node-IndicatorEnumerated1634MDT-User-ConsentEnumerated1635PUR-FlagsUnsigned321636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped			
1634 MDT-User-ConsentEnumerated1635 PUR-FlagsUnsigned321636 Subscribed-VSRVCCEnumerated1637 Equivalent-PLMN-ListGrouped			
1635PUR-FlagsUnsigned321636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped			
1636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped			
1637 Equivalent-PLMN-List Grouped			
1638 CLR-Flags Unsigned 32			
	1638 CLR-Flags	Unsigned32	

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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	Octototring	
	-	
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 Reserved	-	
1665 Reserved	-	
1666 Reserved	-	
1667 Reserved	-	
1668 Reserved	_	
1669 Reserved	_	
	_	
11670 IDacaryad		
1670 Reserved	O at at Ct min m	
1671 MDT-Allowed-PLMN-Id	OctetString	
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272.		
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information	Grouped	
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272.		
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information	Grouped Integer32	
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface	Grouped Integer32 Grouped	
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id	Grouped Integer32 Grouped UTF8String	
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port	Grouped Integer32 Grouped UTF8String UTF8String	
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text	Grouped Integer32 Grouped UTF8String UTF8String UTF8String	
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated	
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated	
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address	
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped	
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address	
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped	
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated	
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time	
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString	
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1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString	32.299 [5]
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated	32.299 [5]
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address	32.299 [5]
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString OctetString Enumerated Address Address Address	32.299 [5]
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address	32.299 [5]
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString OctetString Enumerated Address Address Address	32.299 [5]
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString OctetString Enumerated Address Unsigned32 Enumerated	32.299 [5]
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString OctetString Enumerated Address Unsigned32 Enumerated Grouped	32.299 [5]
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1671MDT-Allowed-PLMN-IdNote: The AVP codes from 1672 to 1699 are reserved for TS 29.272.2000SMS-Information2001Data-Coding-Scheme2002Destination-Interface2003Interface-Id2004Interface-Port2005Interface-Text2006Interface-Type2007SM-Message-Type2008Originating-SCCP-Address2009Originator-Interface2010Recipient-SCCP-Address2011Reply-Path-Requested2012SM-Discharge-Time2013SM-Protocol-ID2014SM-Status2015SM-User-Data-Header2016SMS-Node2017SMSC-Address2018Client-Address2019Number-of-Messages-Sent2020Low-Balance-Indication2021Remaining-Balance2022Refund-Information2023Carrier-Select-Routing-Information2024Number-Portability-Routing-Information2025PoC-Event-Type	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString OctetString Enumerated Address Address Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String Enumerated	32.299 [5]
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1671MDT-Allowed-PLMN-IdNote: The AVP codes from 1672 to 1699 are reserved for TS 29.272.2000SMS-Information2001Data-Coding-Scheme2002Destination-Interface2003Interface-Id2004Interface-Port2005Interface-Text2006Interface-Type2007SM-Message-Type2008Originating-SCCP-Address2009Originator-Interface2010Recipient-SCCP-Address2011Reply-Path-Requested2012SM-Discharge-Time2013SM-Protocol-ID2014SM-Status2015SM-User-Data-Header2016SMS-Node2017SMSC-Address2018Client-Address2019Number-of-Messages-Sent2020Low-Balance-Indication2021Remaining-Balance2022Refund-Information2023Carrier-Select-Routing-Information2024Number-Portability-Routing-Information2025PoC-Event-Type	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString OctetString Enumerated Address Address Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String Enumerated	32.299 [5]
1671MDT-Allowed-PLMN-IdNote: The AVP codes from 1672 to 1699 are reserved for TS 29.272.2000SMS-Information2001Data-Coding-Scheme2002Destination-Interface2003Interface-Id2004Interface-Port2005Interface-Text2006Interface-Type2007SM-Message-Type2008Originating-SCCP-Address2009Originator-Interface2010Recipient-SCCP-Address2011Reply-Path-Requested2012SM-Discharge-Time2013SM-Protocol-ID2014SM-Status2015SM-User-Data-Header2016SMS-Node2017SMSC-Address2018Client-Address2019Number-of-Messages-Sent2020Low-Balance-Indication2021Remaining-Balance2022Refund-Information2023Carrier-Select-Routing-Information2024Number-Portability-Routing-Information2025PoC-Event-Type2026Recipient-Info	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString Utf8String Enumerated Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String Enumerated Grouped Grouped Grouped	32.299 [5]
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Refund-Information 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information <t< td=""><td>Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString OctetString Enumerated Address Enumerated Time OctetString UTF8String Utf8String Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String Enumerated Grouped Grouped Grouped Grouped</td><td>32.299 [5]</td></t<>	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString OctetString Enumerated Address Enumerated Time OctetString UTF8String Utf8String Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String Enumerated Grouped Grouped Grouped Grouped	32.299 [5]
1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Recipient-Info 2026 Recipient-Info 2027 Originator-Received-Address	Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString Utf8String Enumerated Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String Enumerated Grouped Grouped Grouped	32.299 [5]

2033 Service-Mode Unsigned32 2033 Subscriber-Mole Unsigned32 2033 Subscriber-Poliversions Unsigned32 2033 Subscriber-Poliversions Unsigned32 2034 Number-Of-Diversions Unsigned32 2035 Associated-Pary-Address UTF85ining 2036 Subscriber-Poliversions Unsigned32 2036 Sasociated-Pary-Address UTF85ining 2037 Change-Condition Integes32 2037 Change-Condition Integes32 2038 Change-Imne Time 2039 Diagnosics Integes32 2040 Service-Data-Container Grouped 2041 Size-Imne Time 2042 Size-Imne Time 2043 Integes32 2044 Size-Imne Time 2044 Size-Imne Time 2044 Size-Imne Time 2044 Size-Imne Time 2045 Integes32 Unsigned32 2046 Integes32 Unsigned32 2047 Service-Data-Container Grouped 2048 Size-Imne Size-Imne 2049 Particle Size-Imne Size-Imne 2040 Size-Imne Size-Imne 2041 Size-Imne Size-Imne 2042 Size-Imne Size-Imne 2043 Size-Imne Size-Imne 2044 Size-Imne Size-Imne 2045 Size-Imne Size-Imne 2046 Size-Imne Size-Imne 2047 Service-Imne Size-Imne 2048 Size-Imne Size-Imne 2049 Particle Size-Imne 2049 Particle Size-Imne 2050 Dynamic Address-Flag Size-Imne 2051 Dynamic Address-Flag Size-Imne 2052 Add-Information Grouped 2053 Add-Color-Imne 2054 Add-Information Grouped 2055 Size-Imne Size-Imne 2056 Size-Imne Size-Imne 2057 Next Tariff Grouped 2058 Size-Imne Size-Imne 2059 Size-Imne Size-Imne 2059 Size-Imne Size-Imne 2050 Size-Imne Size-Imne 2051 Unit-Cost Grouped 2052 Size-Imne Size-Imne 2053 Address Address 2054 Size-Imne Size-Imne 2055 Size-Imne Size-Imne 2056 Size-Imne Size-Imne 2057 Next Size-Imne 2058 Size-Imne Size-Imne 2059 Size-Imne Size-Imne 2050 Size-Imne Size-Imne 2051 Size-Imne Size-Imne 2052 Size-Imne Size-Imne 2053 Size-Imne Size-Imne 2054 Size-Imne Size-Imne	2024 MMTal Cooming Time	Linaine a dOO	<u> </u>
2033 Subscriber-Role	2031 MMTel-Sservice-Type	Unsigned32	
2034 Number-Of-Diversions			
2035 Associated-Party-Address			
2036 SDP-Type			
2037 Change-Condition Integer32 2038 Change-Time Time 2039 Diagnostics Integer32 2040 Service Data-Container Grouped 2041 Start-Time Time 2042 Stop-Time Time 2042 Stop-Time Time 2043 Time-First-Usage Time 2044 Time-Last-Usage Time 2045 Time-Usage Unsigned32 2046 Traffic-Data-Volumes Grouped 2046 Traffic-Data-Volumes Grouped 2047 Serving Node-Type Enumerated 2048 Supplementary-Service Grouped 2049 Participant-Action-Type Enumerated 2059 Participant-Action-Type Enumerated 2050 Participant-Action-Type Enumerated 2050 Participant-Action-Type Enumerated 2051 Dynamic-Address-Flag Enumerated 2052 Accumulated-Cost Grouped 2053 Ac-Cost-Information Grouped 2054 Ac-Cinformation Grouped 2055 Ac-Request-Type Enumerated 2056 Reduction Grouped 2057 Naxt-Tariff Grouped 2058 Rate-Element Grouped 2059 Scale-Factor Grouped 2060 Tariff-Information Grouped 2061 Unif-Cost Grouped 2062 Informential-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 ScW-Change Enumerated 2066 ScW-Change Enumerated 2066 ScW-Change Enumerated 2067 ScW-Address Flag-Extension Enumerated 2068 ScW-Change Enumerated 2069 Scale-Fore-Number UTF8String 2010 Application-Service-Type Enumerated 2011 Application-Service-Type Enumerated 2012 Papilication-Service-Type Enumerated 2013 Application-Service-Type Enumerated 2014 Content-Of-Messages-Successfully-Exploded Unsigned32 2015 Information Grouped 2016 Content-Of-Messages-Successfully-Exploded Unsigned32 2017 Content-Of-Messages-Successfully-Exploded Unsigned32 2018 Unsigned32 Unsigned32 2019 Content-Of-Messages-Successfully-Exploded Unsigned32 2019 Content-Of-Messages-Successfully-Exploded Unsigned32 2010 Subsession-Decision-Info Grouped 2011 Romander-Of-Messages-Service Unsigned32			
2038 Change-Time	2037 Change Condition		
2039 Diagnostics	2037 Change-Condition		
2040 Service-Data-Container			
2041 Start-Time			
2042 Stop-Time			
2044 Trime-List-Usage			
Display			
2045 Time-Usage			
2046 Traffic Data-Volumes		I .	
2048 Supplementary-Service Grouped			
2048 Supplementary-Service			
Days			
DON-Connection-Charging-ID			
2051 Dynamic-Address-Flag			
2052 Accumulated-Cost			
2053			
2054 AoC-Information Grouped 2055 AoC-Request-Type Enumerated 2056 Current-Tariff Grouped 2057 Next-Tariff Grouped 2058 Rate-Element Grouped 2059 Next-Tariff Grouped 2059 Rate-Element Grouped 2059 Cate-Factor Grouped 2060 Tariff-Information Grouped 2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address Address Address Address 2068 Dynamic-Address-Flag-Extension Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension UTF8String 2101 Application-Server-ID UTF8String 2102 Application-Server-ID UTF8String 2103 Application-Service-Type Enumerated 2103 Application-Service-Type Enumerated 2104 Delivery-Status UTF8String 2106 reserved 2106 reserved 2106 reserved 2107 reserved 2108 reserved 2108 reserved 2109 reserved 2101 Application-Service-Type Enumerated 211 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Exploded Unsigned32 2114 Total-Number-Of-Messages-Services Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2			
2056 Current-Tariff			
Doctor Content Conte			
Doctor Content Conte	2055 AoC-Request-Type	Enumerated	
2058 Rate-Element Grouped		Grouped	
2058 Rate-Element	2057 Next-Tariff	Grouped	
December Content Con	2058 Rate-Element		
December Content Con	2059 Scale-Factor		
2061 Unit-Cost	2060 Tariff-Information		
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2063 Local-Sequence-Number			
2064 Node-Id UTF8String Enumerated 2065 SGW-Change Enumerated Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address Address Address Enumerated 2068 Dynamic-Address-Flag-Extension Enumerated 2069 Dynamic-Address-Flag-Extension Enumerated 2010 Treserved			
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Dynamic-Address-Flag-Extension			
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299			
2100 reserved 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Service-Type Enumerated 2104 Delivery-Status UTF8String 2105 reserved -		Enameratea	
2101 Application-Server-ID		_	
2102 Application-Service-Type		LITE8String	
2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String 2105 reserved - 2106 reserved - 2107 reserved - 2108 reserved - 2109 reserved - 2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String 2118 Charge-Reason-Code Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info Grouped 2201 Subsession-Id Unsigned32 2202 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated		· ·	
2104 Delivery-Status UTF8String 2105 reserved - 2106 reserved - 2107 reserved - 2108 reserved - 2109 ireserved - 2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String 2118 Charge-Reason-Code Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated			
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2106 reserved - 2107 reserved - 2108 reserved - 2109 reserved - 2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String 2118 Charge-Reason-Code Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 29.215 [22]			
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2109 reserved - 32.299 [5] 2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String 2118 Charge-Reason-Code Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated		-	
2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String 2118 Charge-Reason-Code Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated		-	33 300 [5]
2111Number-Of-Messages-Successfully-ExplodedUnsigned322112Number-Of-Messages-Successfully-SentUnsigned322113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String2117Content-provider-IDUTF8String2118Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.2992200Subsession-Decision-InfoGrouped2201Subsession-Enforcement-InfoGrouped2202Subsession-IdUnsigned322203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated			JZ.Z99 [5]
2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Id 2203 Subsession-Operation 2204 Multiple-BBERF-Action Unsigned32 Unsigned32 29.215 [22]			
2113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String2117Content-provider-IDUTF8String2118Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.2992200Subsession-Decision-InfoGrouped2201Subsession-Enforcement-InfoGrouped2202Subsession-IdUnsigned322203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated			
2114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String2117Content-provider-IDUTF8String2118Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.2992200Subsession-Decision-InfoGrouped2201Subsession-Enforcement-InfoGrouped2202Subsession-IdUnsigned322203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated			
2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String 2118 Charge-Reason-Code Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 Grouped 2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated			-
2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String 2118 Charge-Reason-Code Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated			
2117 Content-provider-IDUTF8String2118 Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.2992200 Subsession-Decision-InfoGrouped2201 Subsession-Enforcement-InfoGrouped2202 Subsession-IdUnsigned322203 Subsession-OperationEnumerated2204 Multiple-BBERF-ActionEnumerated			
2118 Charge-Reason-Code Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated			
Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated			
2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated		Enumerated	
2201Subsession-Enforcement-InfoGrouped2202Subsession-IdUnsigned322203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated			T
2202Subsession-IdUnsigned322203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated			
2203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated			
2204 Multiple-BBERF-Action Enumerated			29 215 [22]
			20.210[22]
2205 UE-Local-IPv6-Prefix OctetString			
	2205 UE-Local-IPv6-Prefix	OctetString	

2206 DRA Doployment	Enumerated	
2206 DRA-Deployment 2207 PCRF-Address	Enumerated	
	DiameterIdentity	
2208 DRA-Binding	Enumerated	
Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215	1	
2300 reserved	- 100	
2301 SIP-Request-Timestamp-Fraction	Unsigned32	
2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2303 Online-Charging-Flag	Enumerated	
2304 CUG-Information	OctetString	
2305 Real-Time-Tariff-Information	Grouped	
2306 Tariff-XML	UTF8String	
2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
2309 Account-Expiration	Time	
2310 AoC-Format	Enumerated	
2311 AoC-Service	Enumerated	22 200 [5]
2312 AoC-Service-Obligatory-Type	Grouped	32.299 [5]
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	-	
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator	Enumerated	
2323 MBMS-Charged-Party	Enumerated	
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299	Enumerated	
2400 LMSI	OntatCtrin a	
	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets	Unsigned32	29.173 [25]
2405 GMLC-Address	Address	
2406 Additional-Serving-Node	Grouped	
2407 PPR-Address	Address	
2408 MME-Realm	DiameterIdentity	
Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173	T	
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	20 470 [04]
2513 Accuracy-Fulfilment-Indicator	Enumerated	29.172 [24]
2514 Age-Of-Location-Estimate	Unsigned32	
2515 Velocity-Estimate	OctetString	
2516 EUTRAN-Positioning-Data	OctetString	
2517 ECGI	OctetString	
2518 Location-Event	Enumerated	
2519 Pseudonym-Indicator	Enumerated	
2520 LCS-Service-Type-ID	Unsigned32	
2521 LCS-Privacy-Check-Non-Session	Grouped	
2522 LCS-Privacy-Check-Session	Grouped	
2523 LCS-Privacy-Crieck-Session	Enumerated	
2524 Reserved	Limiliciated	
2525 Reserved		
12020 130001 VOG	1	

2526 Reserved 2527 Reserved 2528 Reserved 2529 Reserved 2530 Reserved 2531 Reserved 2532 Reserved 2533 Reserved 2534 Reserved 2535 Reserved 2536 Reserved 2537 Reserved 2538 Reserved 2539 Reserved 2540 Reserved 2541 Reserved 2542 Reserved 2543 Reserved 2544 Reserved 2545 Reserved 2545 Reserved 2546 Reserved
2528 Reserved 2529 Reserved 2530 Reserved 2531 Reserved 2532 Reserved 2533 Reserved 2534 Reserved 2535 Reserved 2536 Reserved 2537 Reserved 2538 Reserved 2539 Reserved 2540 Reserved 2541 Reserved 2542 Reserved 2543 Reserved 2544 Reserved 2545 Reserved 2546 Reserved 2547 Reserved 2548 Reserved 2549 Reserved 2540 Reserved 2541 Reserved 2542 Reserved 2543 Reserved 2544 Reserved 2545 Reserved
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2529 Reserved 2530 Reserved 2531 Reserved 2532 Reserved 2533 Reserved 2534 Reserved 2535 Reserved 2536 Reserved 2537 Reserved 2538 Reserved 2540 Reserved 2541 Reserved 2542 Reserved 2543 Reserved 2544 Reserved 2545 Reserved
2530 Reserved 2531 Reserved 2532 Reserved 2533 Reserved 2534 Reserved 2535 Reserved 2536 Reserved 2537 Reserved 2538 Reserved 2539 Reserved 2540 Reserved 2541 Reserved 2542 Reserved 2543 Reserved 2544 Reserved 2545 Reserved
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2532 Reserved 2533 Reserved 2534 Reserved 2535 Reserved 2536 Reserved 2537 Reserved 2538 Reserved 2539 Reserved 2540 Reserved 2541 Reserved 2542 Reserved 2543 Reserved 2544 Reserved 2545 Reserved
2533 Reserved 2534 Reserved 2535 Reserved 2536 Reserved 2537 Reserved 2538 Reserved 2539 Reserved 2540 Reserved 2541 Reserved 2542 Reserved 2543 Reserved 2544 Reserved 2545 Reserved
2534 Reserved 2535 Reserved 2536 Reserved 2537 Reserved 2538 Reserved 2539 Reserved 2540 Reserved 2541 Reserved 2542 Reserved 2543 Reserved 2544 Reserved 2545 Reserved
2535 Reserved 2536 Reserved 2537 Reserved 2538 Reserved 2539 Reserved 2540 Reserved 2541 Reserved 2542 Reserved 2543 Reserved 2544 Reserved 2545 Reserved
2536 Reserved 2537 Reserved 2538 Reserved 2539 Reserved 2540 Reserved 2541 Reserved 2542 Reserved 2543 Reserved 2544 Reserved 2545 Reserved
2536 Reserved 2537 Reserved 2538 Reserved 2539 Reserved 2540 Reserved 2541 Reserved 2542 Reserved 2543 Reserved 2544 Reserved 2545 Reserved
2537 Reserved 2538 Reserved 2539 Reserved 2540 Reserved 2541 Reserved 2542 Reserved 2543 Reserved 2544 Reserved 2545 Reserved
2538 Reserved 2539 Reserved 2540 Reserved 2541 Reserved 2542 Reserved 2543 Reserved 2544 Reserved 2545 Reserved
2539 Reserved 2540 Reserved 2541 Reserved 2542 Reserved 2543 Reserved 2544 Reserved 2544 Reserved 2545 Reserved
2540 Reserved 2541 Reserved 2542 Reserved 2543 Reserved 2544 Reserved 2545 Reserved
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2542 Reserved 2543 Reserved 2544 Reserved 2545 Reserved
2543 Reserved 2544 Reserved 2545 Reserved
2544 Reserved 2545 Reserved
2545 Reserved
2545 Reserved
2546 Reserved
2547 Reserved
2548 Reserved
2549 Reserved
2550 Reserved
2551 Reserved
2552 Reserved
2553 Reserved
2554 1xRTT-RCID OctetString
Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172
2600 Reserved -
2601 IMS-Application-Reference-Identifier UTF8String
2602 Low-Priority-Indicator Enumerated
2603 IP-Realm-Default-Indicator Enumerated 32.299 [5
2604 Local-GW-Inserted-Indicator Enumerated
2605 Transcoder-Inserted-Indicator Enumerated
2606 PDP-Address-Prefix-Length Unsigned32
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved -
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - UTF8String
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Access-Transfer-Type Grouped
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Access-Transfer-Type Grouped 2710 Access-Transfer-Type Enumerated
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Access-Transfer-Type Grouped 2710 Access-Transfer-Type Enumerated 2711 Related-IMS-Charging-Identifier UTF8String
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Access-Transfer-Type Grouped 2710 Access-Transfer-Type Enumerated 2711 Related-IMS-Charging-Identifier UTF8String
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Access-Transfer-Type Grouped 2710 Access-Transfer-Type Enumerated 2711 Related-IMS-Charging-Identifier 2712 Related-IMS-Charging-Identifier-Node Address
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Access-Transfer-Type Grouped 2710 Access-Transfer-Type Enumerated 2711 Related-IMS-Charging-Identifier UTF8String 2712 Related-IMS-Charging-Identifier UTF8String 2713 IMS-Visited-Network-Identifier UTF8String
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Access-Transfer-Type Grouped 2710 Access-Transfer-Type Enumerated 2711 Related-IMS-Charging-Identifier UTF8String 2712 Related-IMS-Charging-Identifier UTF8String 2713 IMS-Visited-Network-Identifier 2714 TWAN-User-Location-Info Grouped
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Access-Transfer-Type Grouped 2710 Access-Transfer-Type Enumerated 2711 Related-IMS-Charging-Identifier UTF8String 2712 Related-IMS-Charging-Identifier UTF8String 2713 IMS-Visited-Network-Identifier 2714 TWAN-User-Location-Info Grouped
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved 2701 Transit-IOI-List 2702 Status-AS-Code 2703 NNI-Information 2704 NNI-Type 2705 Relationship-Mode 2706 Relationship-Mode 2707 Session-Direction 2708 From-Address 2709 Access-Transfer-Information Access-Transfer-Type 2710 Access-Transfer-Type 2711 Related-IMS-Charging-Identifier 2712 Related-IMS-Charging-Identifier 2713 IMS-Visited-Network-Identifier 2714 TWAN-User-Location-Info 2715 Reserved 2716 BSSID UTF8String Crouped 2716 BSSID UTF8String UTF8String Crouped 2717 Grouped 2718 UTF8String Crouped 2719 Grouped 2710 Grouped 2711 TWAN-User-Location-Info Crouped 2715 Reserved UTF8String UTF8String UTF8String
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Access-Transfer-Type Grouped 2710 Access-Transfer-Type Enumerated 2711 Related-IMS-Charging-Identifier UTF8String 2712 Related-IMS-Charging-Identifier UTF8String 2713 IMS-Visited-Network-Identifier UTF8String 2714 TWAN-User-Location-Info Grouped 2715 Reserved - 2716 BSSID UTF8String 2717 TAD-Identifier Enumerated
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved 2701 Transit-IOI-List 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Access-Transfer-Type Grouped 2710 Access-Transfer-Type Enumerated 2711 Related-IMS-Charging-Identifier 2712 Related-IMS-Charging-Identifier 2713 IMS-Visited-Network-Identifier 2714 TWAN-User-Location-Info 2715 Reserved 2716 BSSID UTF8String 2717 TAD-Identifier Enumerated Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved - 2701 Transit-IOI-List UTF8String 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Access-Transfer-Type Grouped 2711 Related-IMS-Charging-Identifier UTF8String 2712 Related-IMS-Charging-Identifier Address UTF8String 2713 IMS-Visited-Network-Identifier UTF8String 2714 TWAN-User-Location-Info Grouped 2715 Reserved - 2716 BSSID UTF8String 2717 TAD-Identifier Enumerated Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299 2800 Reserved -
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Reserved 2701 Transit-IOI-List 2702 Status-AS-Code Enumerated 2703 NNI-Information Grouped 2704 NNI-Type Enumerated 2705 Neighbour-Node-Address Address 2706 Relationship-Mode Enumerated 2707 Session-Direction Enumerated 2708 From-Address UTF8String 2709 Access-Transfer-Information Access-Transfer-Type Grouped 2710 Access-Transfer-Type Enumerated 2711 Related-IMS-Charging-Identifier 2712 Related-IMS-Charging-Identifier 2713 IMS-Visited-Network-Identifier 2714 TWAN-User-Location-Info 2715 Reserved 2716 BSSID UTF8String 2717 TAD-Identifier Enumerated Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299
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2808 CS-Service-QoS-Request-Operation	Enumerated	
2809 Mute-Notification	Enumerated	
2810 Monitoring-Time	Time	
2811 AN-GW-Status	Enumerated	
2812 User-Location-Info-Time	Grouped	
2813 CS-Service-Resource-Report	Time	
2814 CS-Service-Resource-Failure-Cause	Enumerated	
2815 CS-Service-Resource-Result-Operation	Enumerated	
2816 Reserved	Enamerated	
2817 Reserved		
2818 Reserved		
2819 Reserved		
2820 Reserved		
2821 Reserved		
2822 Reserved		
2823 Reserved		
2824 NetLoc-Access-Support		
Note: The AVP codes from 2825 to 2899 are reserved for TS 29.212		
2900 reserved	T	
2900 reserved	- Grouped	
	Grouped	
2902 Policy-Counter-Status	UTF8String	20 240 [20]
2903 Policy-Counter-Status-Report	Grouped	29.219 [26]
2904 SL-Request-Type	Enumerated	
2905 Pending-Policy-Counter-Information	Grouped	
2906 Pending-Policy-Counter-Change-Time	Time	
Note: The AVP codes from 2907 to 2999 are reserved for TS 29.219		
3000 reserved		
3001 Device-Action	Grouped	
3002 Device-Notification	Grouped	
3003 Trigger-Data	Grouped	
3004 Payload	OctetString	
3005 Action-Type	Enumerated	29.368 [27]
3006 Priority-Indication	Enumerated	
3007 Reference-Number	Unsigned32	
3008 Request-Status	Enumerated	
3009 Delivery-Outcome	Enumerated	
3010 Application-Port-Identifier	Unsigned32	
Note: The AVP codes from 3011to 3099 are reserved for TS 29.368		ı
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	29.336 [28]
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	
Note: The AVP codes from 3113 to 3199 are reserved for TS 29.336	•	
3200 SM-Delivery-Outcome-T4	Enumerated	20 227 [20]
3201 Absent-Subscriber-Diagnostic-T4	Enumerated	29.337 [29]
Note: The AVP codes from 3202 to 3299 are reserved for TS 29.337		
3300 SC-Address	OctetString	
3301 SM-RP-UI	OctetString	
3302 TFR-Flags	Unsigned32	
3303 SM-Delivery- Failure-Cause	Grouped	
3304 SM-Enumerated-Delivery-Failure-Cause	Enumerated	00 000 5003
3305 SM-Diagnostic-Info	OctetString	29.338 [30]
3306 SM-Delivery-Timer	Unsigned32	
3307 SM-Delivery-Start-Time	Time	
3308 SM-RP-MTI	Enumerated	
3309 SM-RP-SMEA	OctetString	
10000 jem in Omeri	Colololing	1

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	
	SM-Delivery-Outcome	Grouped	
3317	MME-SM-Delivery-Outcome	Grouped	
3318	MSC-SM-Delivery-Outcome	Grouped	
3319	SGSN-SM-Delivery-Outcome	Grouped	
	IP-SM-GW-SM-Delivery-Outcome	Grouped	
3321	SM-Delivery-Cause	Enumerated	
3322	Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
Note:	The AVP codes from 3323 to 3399 are reserved for TS 29.338		

8 Experimental result codes

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

8.1 3GPP specific result codes

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

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

8.1.1 Informational

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

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

8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

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

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

	Experimental Result Code								
	4100	4100 DIAMETER_USER_DATA_NOT_AVAILABLE							
	4101 I	DIAMETER_PRIOR_UPDATE_IN_PROGRESS							
_	Note: The Experimental Result Codes from 4102 to 4120 are reserved for the TS 29.329.								
	4121	DIAMETER_ERROR_OUT_OF_RESOURCES		29.061 [13]					
	Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29	9.061.						
	4141	DIAMETER_PCC_BEARER_EVENT							
	4142	DIAMETER_BEARER_EVENT		29.212 [19]					
	4143	DIAMETER_AN_GW_FAILED							
	Note: The Experime	ntal Result Codes from 4144 to 4160 are reserved for the TS 29	9.212						
				32.299 [5]					
	Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32							
	4181 DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE 29.272 [21]								
Note: Th	e Experimental Resu	It Codes from 4182 to 4200 are reserved for the TS 29.272.							
		ER_ERROR_ABSENT_USER	2	29.173 [25]					
		It Codes from 4202 to 4220 are reserved for the TS 29.173.							
		ER_ERROR_UNREACHABLE_USER							
	l l	ER_ERROR_SUSPENDED_USER							
		DIAMETER_ERROR_DETACHED_USER		29.172 [24]					
4		R_ERROR_POSITIONING_DENIED		29.172 [24]					
4		R_ERROR_POSITIONING_FAILED							
	4226 DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT								
Note: Th	e Experimental Resu	It Codes from 4227 to 4240 are reserved for the TS 29.172.							
		ER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	2	29.219 [26]					
Note: Th	e Experimental Resu	It Codes from 4242 to 4260 are reserved for the TS 29.219.							

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	29.229 [2]					
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE						
5008	DIAMETER_ERROR_TOO_MUCH_DATA						
5009	DIAMETER ERROR NOT SUPPORTED USER DATA						
5010	unassigned						
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED						
Note: The Expe	rimental Result Codes from 5012 to 5020 are reserved for the TS	S 29.229.					
'		32.299 [5]					
Note: The Expe	rimental Result Codes from 5021 to 5040 are reserved for the TS	32.299.					
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION						
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER						
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC	00.004.503					
	RIPTION	29.234 [6]					
5044	DIAMETER ERROR USER NO W-APN SUBSCRIPTION						
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK						
Note: The Expe	rimental Result Codes from 5046 to 5060 are reserved for the TS	S 29.234.					
5061	INVALID_SERVICE_INFORMATION						
5062	FILTER_RESTRICTIONS						
5063	REQUESTED_SERVICE_NOT_AUTHORIZED						
5064	DUPLICATED_AF_SESSION 29.209 [8],						
5065	P-CAN_SESSION_NOT_AVAILABLE 29.211 [17]						
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION						
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY						
5068	TEMPORARY_NETWORK_FAILURE						
Note: The Expe	rimental Result Codes from 5063 to 5080 are reserved for TS 29	.209, TS 29.211					
	TS 29.214.						
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED						
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED						
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ						
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED						
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	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 TS	3 29.329.					
5120 DIAMETER ERROR START INDICATION							

5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	
E	5123	DIAMETER_ERROR_SERVICE_AREA

	oleo birane rent_eranon_oenvioe_rane.r						
Note: The Experimental Result Codes from 5124 to 5139 are reserved for the TS 29.061.							
5140	DIAMETER_ERROR_INITIAL_PARAMETERS						
5141	DIAMETER_ERROR_TRIGGER_EVENT						
5142	DIAMETER_PCC_RULE_EVENT						
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED						
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D	29.212 [19]					
5145	DIAMETER QOS RULE EVENT						
5146	reserved						
5147	DIAMETER_ERROR_CONFLICTING_REQUEST						
5148	DIAMETER_ADC_RULE_EVENT						
Note: The Expe	erimental Result Codes from 5149 to 5159 are reserved for the TS	3 29.212.					
5401	DIAMETER_ERROR_IMPI_UNKNOWN						
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7					
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID						
Note: The Expe	erimental Result Codes from 5404 to 5419 are reserved for the TS	S 29.109.					
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	29.272 [21]					

5421	DIAMETER_ERROR_RAT_NOT_ALLOWED						
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN						
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE						
Note: The Expe	Note: The Experimental Result Codes from 5424 to 5449 are reserved for the TS 29.272.						
5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI						
	ON	20 272 [20]					
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	29.273 [20]					
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED						
Note: The Expe	Note: The Experimental Result Codes from 5453 to 5469 are reserved for the TS 29.273.						

5470	DIAMETER_ERROR _SUBSESSION	
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME	29.215 [22]
	NT	
Note: The Exp	erimental Result Codes from 5472 to 5489 are reserved for the TS	S 29.215.
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK	29.173 [25]
Note: The Exp	erimental Result Codes from 5491 to 5509 are reserved for the TS	S 29.173.
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI	
	TY	29.336 [28]
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
Note: The Exp	erimental Result Codes from 5512 to 5529 are reserved for the TS	\$ 29.336.
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	
5531	DIAMETER_ERROR_SC_CONGESTION	29.337 [29]
5532	DIAMETER_ERROR_SM_PROTOCOL	
Note: The Exp	erimental Result Codes from 5533 to 5549 are reserved for the TS	\$ 29.337.
5550	DIAMETER_ERROR_ABSENT_USER	
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5553	DIAMETER_ERROR_ILLEGAL_USER	
5554	DIAMETER_ERROR_ILLEGAL_EQUIPMENT	29.338 [30]
5555	DIAMETER_ERROR_SM_DELIVERY_FAILURE	
5556	DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED	
5557	DIAMETER_ERROR_SERVICE_BARRED	
5558	DIAMETER_ERROR_MWD_LIST_FULL	
Note: The Exp	erimental Result Codes from 5559 to 5569 are reserved for the TS	S 29.338.
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
Note: The Exp	erimental Result Codes from 5571 to 5589 are reserved for the TS	S 29.219.

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

Deta	TCO "	TCC Date	CE	D	Change history	01-1	Marri
Date	TSG #	TSG Doc.	CR	Kev	Subject/Comment	Old	New
2004-06		NP-040292	004		Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09		NP-040401	001		Correction of Charging application reference	6.0.0	6.1.0
2004-09		NP-040401	002		Correction of the Application-Id code	6.0.0	6.1.0
2004-09		NP-040401	003	4	Removal of User Data Request Type AVP	6.0.0	6.1.0
2004-09		NP-040412	004	1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12		NP-040579	006	_	Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12		NP-040580	007	1	Reservation of command code 310	6.1.0	6.2.0
2004-12		NP-040579	009	1	Addition of Gmb interface	6.1.0	6.2.0
2004-12		NP-040600	010	2	Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces	6.1.0	6.2.0
2004-12		NP-040579	011		Gq interface allocations	6.1.0	6.2.0
2004-12		NP-040579	012		Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047	040	1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039	043		Allocations for Gx interface		
		NP-050039	045		Allocations for Gmb interface		
		NP-050039	046		Allocations for MMS, MM10 Interface		
2005-06	CT#28	CP-050088	0050		Gx interface allocation correction	6.3.0	6.4.0
		CP-050196		1	Addition of Maximum-Number-Accesses AVP		
2005-09	CT#29	CP-050440	0052	1	Private identities on the Cx	6.4.0	6.5.0
		CP-050310	0053		Addition of Pr reference point to TS 29.230		
		CP-050310	0054		Error code cleanup		
		CP-050310	0056		Addition of Rx ref. point and renaming of Experimental Result Codes		
2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-12		CP-050624	0058		Addition of GBA-Type AVP	7.0.0	7.1.0
	000	CP-050612	0063		Additional Gmb AVP Allocation		1
		CP-050612	0065		Reservation of AVP codes for 32.299	-	
		CP-050625	0066		Management of Sh subscriptions		
2006-03	CT#31	CP-060073	0069		Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
.000 00	01//01	CP-060084	0071		User-Data in the response to Sh-Subs-Notif	7.1.0	7.2.0
		CP-060084	0072	1	New error indications for the Sh-Subs-Notif procedure		
2006-06	CT#32	CP-060302	0075	'	S-CSCF reselection removal	7.2.0	7.3.0
2006-09		CP-060417	0077	3	New AVP Code	7.3.0	7.4.0
-000 00	01//00	CP-060417	0080	-	Errors to be sent in response to Sh-Notif	7.0.0	7.4.0
		CP-060417	0081		Definition of specific Diameter codes for DSAI		
2006-12	CT#34	CP-060566	0085	1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
2000 12	01#34	CP-060562	0086	'	Addition of Diameter Error Code for Emergency Purposes	7.4.0	7.5.0
		CP-060555	0087		Allocation of new AVP codes for Gmb		
		CP-060555	0089		AVP code allocations for Rf and Ro interfaces	_	
		CP-060566	0003		Allocation of Success Result Code Range for Gi Interface		
2007-03	CT#35	CP-000300 CP-070020	0093		C3 requested addition of new AVP code values to 3GPP TS	7.5.0	7.6.0
		CP-070020	0002		29.230 Allocation of new AVP code for DSAI-Tag AVP	-	
			0093			-	
2007.00	CT#2C	CP-070020	0093		Allocation of Experimental-Result-Code AVP for Gi Interface	760	770
2007-06	CT#36	CP-070318	0096		Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312	0098		Experimental-Result-Codes for Gmb interface	4	
207.22	OT:::0=	CP-070312	0100		Correction of Diameter AVP code allocation	770	7.0.0
2007-09	CT#37	CP-070527	0102		Application ID for Gx protocol	7.7.0	7.8.0
2007-12	CT#38	CP-070743	0104 0105		AVP code reservation for 32.299 in Rel-7 Allocation of 3GPP specific AVP codes and Experimental Result	7.8.0	7.9.0
					Codes for Gx protocol		
2007-12	CT#38	CP-070755	0101	4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
			0103		AVP code reservation for 32.299 in Rel-8		
2008-03	CT#39	CP-080015	0109		Correction of reference to TS 29.140	8.0.0	8.1.0
		CP-080019	0111		AVP code reservation for TS 32.299 in Rel-8		
		CP-080019	0107		Wildcarded Public User Identities		
		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	1	
	CT#40	CP-080267	0117		A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-06		J. 000201	0117				
		CP-080456	0110		Emergency Public User Identity Removal	820	おさい
2008-06 2008-09 2008-09	CT#41	CP-080456 CP-080460	0119 0121		Emergency Public User Identity Removal Support of "Loose-Route" indication from HSS	8.2.0	8.3.0

2008-09	CT#41	CP-080463	0123		Cx Impacts of IMS Restoration Procedures (New AVP Codes		Ì
					Assignment)		
2008-09	CT#41	CP-080463	0124		New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42	CP-080691		2	Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691	0128	1	Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044 CP-090044	0130	1	Update for ReadyForSM Handling LCS Subscription Data	8.4.0 8.4.0	8.5.0 8.5.0
2009-03	CT#43	CP-090044 CP-090026	0131	1	Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0133		Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033		2	Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0137	1	AVP codes for S9 protocol	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0138	1	Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0140	1	Location of Permanent Failure result code range for the S9 application	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0141		AVPs for TS 29.273	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0142	1	Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299	0129	4	Update of the AVP Codes	8.5.0	8.6.0
		CP-090299	0143		AVP code reservation for TS 32.299		
		CP-090299	0145		Diameter Command Codes for S6a/S6d/S13/S13'		
			0146		Removal of Requesting Node Type from AIR		
		CP-090299	0147		S6b Application ID		
2009-09	CT#45	CP-090530	0149		Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	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	1	
2009-09	CT#45	CP-090557	0148		AVP code range for charging	8.7.0	9.0.0
2009-12	CT#46	CP-090800	0154	1	ICS-Flag	9.0.0	9.1.0
		CP-091032	0156		From GMLC-Address to GMLC-Number		
			0160		Session-Priority AVP		
			0163	2	Introduction of SLh application related AVPs and Experimental Result codes		
			0166		Missing AVP error codes		
		CP-090797	0167	1	Introduction of SLg application related AVPs and Application		
					Identifier		
2010-03	CT#47	CP-100031	0158		Wildcarded Public Identity	9.1.0	9.2.0
		CP-100034	0168	1	Correction on AVP code allocation reservation for TS 32.299 in		
					Rel-9		
		CP-100046	0169	1	AVP code allocation for 29.172		
		CP-100036	0172		GPL_U support in TS 29.109		
		CP-100046	0173		Error codes in 29.172 for SLg		
		CP-100048 CP-100040	0174 0175	1	AVPs in 29.272 for TADS support Error codes in 29.272 for Unknown MME		
		CP-100040 CP-100236	0176	1	EPS Subcsriber State and Location Information Request		
		CP-100230	0180	7	One time notification AVP allocation		
		CP-100046	0181		Addition of the LCS-QoS-Class attribute value		
		CP-100175	0182		Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
2010-06	CT#48	CP-100263	0188		AVP Codes for PCC	9.2.0	9.3.0
			0183		EPS state and location retrieval		
		CP-100287	0186		SGmb Application ID		
		CP-100277	0190		New APVs in S6a protocol		
2010-09	CT#49	CP-100463	0197		Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.0
		00 /			interfaces	4	
0040.00	OT# 15	CP-100464	0196		AVP Codes Allocation for PCC	0.46	40.00
2010-09	CT#49	CP-100465	0193		SIPTO Permission Indicator	9.4.0	10.0.0
		CP-100466	0198	1	Location data including only serving node address	-	}
2010-12	CT#50	CP-100466 CP-100699	0199 0205	1	AVP for Update-Eff feature Enhanced SRVCC Subscriber Data	10.0.0	10.1.0
2010-12	01#30	CP-100699 CP-100687	0205	1	Allocate codes for AVPs on eMPS	10.0.0	10.1.0
		CP-100687	0200		Allocate codes for AVPs on LIPA	+	
		CP-100688		1	Periodic TAU/RAU timer in HSS subscription	7	
		CP-100846	0203		S6a Error Diagnostic	7	İ
2011-03	CT#51	CP-110051	0212		PDP-Address correction	10.1.0	10.2.0
		CP-110054	0215		Essential correction on the value type of the ELP Application AVPs		
		CP-110087	0207		Minimization of Drive Tests (MDT)	7	İ
		CP-110088	0209		Relay Node Indicator AVPs	L	
2011-06	CT#52	CP-110349	0219	2	Handling of RTR for Emergency Registration	10.2.0	10.3.0
		CP-110347	0231		Add AVPs from QSPEC cleanup	_	
		CP-110359	0226		MIPv4 security parameters on the STa and S6b interfaces	_	
		CP-110380	0216		MDT user consent	4	
		CP-110370	0223		AVP Code Allocation for Pre-paging	4	
0044.55	OT#==	CP-110375	0227		PUR-Flags AVP	40.0.0	40.40
2011-09	CT#53	CP-110559	0236		AVP code alignment with 29.212	10.3.0	10.4.0
		CP-110555	0239		AVP code alignment with 32.299		

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		CP-110554	0244	1	AVP code alignment with 29.214	_	
		CP-110552	0249		Experimental Result Code Alignment with 29.061	_	
		CP-110555	0252	0	Failure code and AVP code alignment with 29.212		
2011-09	CT#53	CP-110722	0257		Priviledged sender	10.4.0	11.0.0
2011-09	C1#53	CP-110584 CP-110579	0234 0240	I	Add vSRVCC updates to the Diameter AVP code table AVP code alignment with 32.299	10.4.0	11.0.0
		CP-110579	0253		AVP code alignment with 52.299 AVP code reservation for 29.212		
2011-12	CT#54	CP-110812	0258	1	SWx Restoration AVPs	11.0.0	11.1.0
2011 12	01//04	CP-110812	0259		Sy and Sd Application IDs	11.0.0	11.1.0
		CP-110775	0262		New AVP codes for MBMS IP unicast encapsulation		
		CP-110775	0265		New AVP codes for MBMS IP multicast encapsulation	1	
		CP-110786	0271	1	MME-Realm AVP code allocation	1	
		CP-110811	0277		Equivalent PLMN CSG Subscription Request		
		CP-110781	0281	1	Restoration of Wildcarded-IMPU AVP		
2012-03	CT#55	CP-120025	0286	1	Codes Allocation for AVPs on Initial Attach	11.1.0	11.2.0
		CP-120038	0288		New AVP codes for Absolute Time of MBMS Data Transfer over		
					SGmb		
0040.00	OT#50	CP-120038	0291		Allocating Diameter AVP codes for TS 29.219 and TS 29.212	44.0.0	4400
2012-06	CT#56	CP-120240	0287		Codes Allocation for AVPs on NPLI Adding new Diameter AVPs to Diameter table to support Trusted	11.2.0	11.3.0
		CP-120238	0294	1			
		CP-120225	0296	1	WLAN Access feature Trust Relationship Indication	-	
		CP-120225 CP-120251	0296		Corrections to reference titles	+	
		CP-120251	0298	1	Diameter Code Allocation for TS 29.219	1	
		CP-120247	0300	ļ	Network Name AVP codes	1	
		CP-120219	0304	-	Duplicated AVP names		
2012-09	CT#57	CP-120481	0289		PS additional number allocation	11.3.0	11.4.0
		CP-120473	0293		SMS in MME/SGSN		
		CP-120461	0299		AAA Failure Recovery AVP codes	1	
		CP-120474	0305	-	Transport Access Type AVP for BBAI		
		CP-120480		1	Local Time Zone		
		CP-120472	0308	-	Allocating Application Identifier and command code for Tsp		
		CP-120472	0309	_	interface Application Identifier, Command Codes and AVP range for S6m	-	
		CF-120472	0309	_	interface		
		CP-120667	0312	1	GMLC-Name		
		0. 120001	0313		Reference list correction to align with the corrected TS 29.212		
					title		
2012-12	CT#58	CP-120731	0315	2	T4 device triggering via IMS	11.4.0	11.5.0
		CP-120731	0318		Codes and Identifier Allocation for T4 Specification		
		CP-120731	0324		AVP Code Allocation for 29.336		
		CP-120731	0329		Diameter AVP code value allocation in TS 29.368	_	
		CP-120732	0319	2	Application Identifier, Command Codes and AVP codes for SGd,		
		CD 400740	0004	4	S6c AVP name modification in TS 32.299	-	
		CP-120716 CP-120742	0324 0325	-	UE Time Zone AVP	-	
		CP-120741	0328		Use of Flag instead of Enumerated AVPs	-	
		CP-120741	332	-	Use of Flag instead of Enumerated AVPs		
		CP-120743	330	_	PSI direct routing with restoration procedures		
		CP-120743	333	-	EPS LocationInformation Support	1	
2013-03	CT#59	CP-130026	0334	1	Diameter error code for TS 29.219	11.5.0	11.6.0
	1	CP-130026	0336	-	MDT parameters		
2013-06	CT#60	CP-130288	0361	1	Add new DER-S6b-flag AVP	11.6.0	11.7.0
		CP-130298	0359	-	Failure Result Codes Allocation for TS 29.219		
	1	CP-130292	0357	-	Diameter AVP codes for new TS 32.299 AVPs	_	
		CP-130279	0353		Definition of SS Status for Call Barring		
		CP-130297	0346	1	Application Port Identifier		
		CP-130295	0343	-	Restoration Priority during SGW and PGW restoration		
		CD 400074	0005	2	procedures MTDD on Sh	4	
2042.00	OT#04	CP-130374	0335		MTRR on Sh	44.7.0	44.0.0
2013-09	CT#61	CP-130460	0367	-	Allocation of Diameter codes and identifiers for 29.212 and 29.215	11.7.0	11.8.0
2013-12	CT#62	CP-130600	0375	_	Allocation of Diameter codes for 32.299	11.8.0	11.9.0
_0.012	01,102	CP-130605	0377		Allocation of Diameter codes for 29.212	1	
		CP-130605	0379		Command Code Value correction for TER/TEA	1	
2014-03	CT#63	CP-140023	0382		Definition of WLAN-related AVPs	11.9.0	11.10.0
2014-06	CT#64	CP-140231	0389	-	Adding Codes for 29.214	11.10.0	11.11.0
		CP-140257	0396	-	SS-Status AVP Definition	Ī	
		CP-140236	0400	-	TWAN-BSSID AVP re-naming	1	
2014-12	CT#66	CP-140763	0415	1	code definitions for 32.299	11.11.0	11.12.0
		CP-140764		1	MDT PLMN List		
		CP-140767	0424	-	Corrections of the type of some AVPs		
						1	1
		CP-140768	0432	-	Code allocation for 29.212		
2015-03	CT#67	CP-140768 CP-150015 CP-150018	0432 0446 0436	-	Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	11.12.0	11.13.0

2015-06	CT#68	CP-150245	0455	-	Wrong CR implementation of CR 0415r1	11.13.0	11.14.0
		CP-150248	0460	-	IP-SM-GW-Realm		
2017-12	CT#78	CP-1730	0621	-	AVP codes for TS 29.219	11.14.0	11.15.0

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