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> Diameter applications; 3GPP specific codes and identifiers (3GPP TS 29.230 version 9.17.0 Release 9)



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#### 1 Scope

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

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

#### 2 References

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

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

Diameter protocol".

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

[1]	3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and message contents".
[2]	3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter protocol; Protocol details".
[3]	3GPP TS 29.328: "IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents".
[4]	3GPP TS 29.329: "Sh Interface based on the Diameter protocol; Protocol details".
[5]	3GPP TS 32.299: "3GPP Diameter charging application".
[6]	3GPP TS 29.234: "3GPP System to WLAN Interworking; Stage 3 Description".
[7]	3GPP TS 29.109: "Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Protocol details".
[8]	3GPP TS 29.209: "Technical Specification Group Core Network; 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: <a href="http://www.iana.org/assignments/enterprise-numbers">http://www.iana.org/assignments/enterprise-numbers</a>
[12]	IANA"s AAA parameters register: <a href="mailto:ftp://ftp.iana.org/assignments/aaa-parameters/">ftp://ftp.iana.org/assignments/aaa-parameters/</a>
[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; Online Charging System (OCS): Applications and interfaces;".
[15]	3GPP TS 29.210: "Charging rule provisioning over Gx interface".
[16]	3GPP TS 29.140 Release 6: "Multimedia Messaging Service (MMS); MM10 interface based on
	[2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15]

[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 over Gx reference point".
[20]	3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces".
[21]	3GPP TS 29.272: "MME and SGSN Related Interfaces Based on Diameter Protocol".
[22]	3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point".
[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; EPC LCS Protocol (ELP) between the GMLC and the MME; SLg interface".
[25]	3GPP TS 29.173: "Location Services; Diameter-based SLh interface for Control Plane LCS".

#### 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]

#### 5 Command codes

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

#### 5.1 Command codes allocated for 3GPP

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

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

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

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
316	Update-Location-Request/Answer	ULR/ULA	
317	Cancel-Location-Request/Answer	CLR/CLA	
318	Authentication- Information -	AIR/AIA	
	Request/Answer		
319	Insert Subscriber Data-Request/Answer	IDR/IDA	29.272 [21]
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]

#### 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 Cod e	Attribute Name	Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	
	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 compatil	bility with 3GPP RADIUS	Vendor Specific
Attribu	utes (See TS 29.061 [13] and TS 29.234 [6])		
Note:	The AVP codes from 256 to 299 are reserved for future use.		
300	Authentication-Method	Enumerated	
301	Authentication-Information-SIM	OctetString	
	Authorization -Information-SIM	OctetString	
303	WLAN-User-Data	Grouped	
	Charging-Data	Grouped	
305	WLAN-Access	Enumerated	
306	WLAN- 3GPP-IP-Access	Enumerated	
307	APN-Authorized	Grouped	
308	APN-Id		
309	APN-Barring-Type	Enumerated	20 224 [6]
	WLAN-Direct-IP-Access	Enumerated	29.234 [6]
311	Session-Request-Type	Enumerated	
	Routing-Policy	IPFilterRule	
	Max-Requested-Bandwidth	OctetString	
	Charging-Characteristics	Integer	
	Charging-Nodes	Grouped	
	Primary-OCS-Charging-Function-Name	DiameterIdentity	
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
	3GPP-AAA-Server-Name	DiameterIdentity	
	Maximum-Number-Accesses	Unsigned32	
	The AVP codes from 320 to 399 are reserved for TS 29.234	5g	
	GBA-UserSecSettings	OctetString	
401	Transaction-Identifier	OctetString	
	NAF-Hostname	OctetString	
	GAA-Service-Identifier	OctetString	
404	Key-ExpiryTime	Time OctetString	
405	ME-Key-Material UICC-Key-Material	OctetString	
	GBA_U-Awareness-Indicator	Enumerated	
408	BootstrapInfoCreationTime	Time	
409	GUSS-Timestamp	Time	
	GBA-Type	Enumerated	29.109 [7]
	UE-Id	OctetString	
412	UE-Id-Type	Enumerated	
	UICC-App-Label UICC-ME	OctetString Enumerated	
	Requested-Key-Lifetime	Time	
	Private-Identity-Request	Enumerated	
	GBA-Push-Info	OctetString	
418	NAF-SA-Identifier	OctetString	
419	Security-Feature-Request	OctetString	
	Security-Feature-Response	OctetString	
	The AVP codes from 421 to 499 are reserved for TS 29.109	_	_
	Abort-Cause	Enumerated	_
	Access-Network-Charging-Address	Address	_
	Access-Network-Charging-Identifier	Grouped	29.209 [8],
	Access-Network-Charging-Identifier-Value	OctetString	29.209 [6],
	AF-Application-Identifier	OctetString	29.211 [17],
	AF-Charging-Identifier	OctetString	
	Authorization-Token	OctetString	_
507	Flow-Description	IPFilterRule	

=00			
	Flow-Grouping	Grouped	
	Flow-Number	Unsigned32	
	Flows	Grouped	
	Flow-Status	Enumerated	
	Flow-Usage	Enumerated	
513	Specific-Action	Enumerated	
514	Max-Requested-Bandwidth	Unsigned32	
515	Max-Requested-Bandwidth-DL	Unsigned32	
	Max-Requested-Bandwidth-UL	Unsigned32	
	Media-Component-Description	Grouped	
	Media-Component-Number	Unsigned32	
	Media-Sub-Component AVP	Grouped	
	Media-Type	Enumerated	
	RR-Bandwidth		
		Unsigned32	
	RS-Bandwidth	Unsigned32	
	SIP-Forking-Indication	Enumerated	
	Codec-Data	OctetString	
	Service-URN	OctetString	
	Acceptable-Service-Info	Grouped	
	Service-Info-Status	Enumerated	
	reserved	-	
529	AF-Signalling-Protocol	Enumerated	
	The AVP codes from 530 to 599 are reserved for TS 29.209, TS 29.		
	Visited-Network-Identifier	OctetString	
	Public-Identity	UTF8String	
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data		
		OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	
	SIP-Authorization	OctetString	
611	SIP-Authentication-Context	OctetString	
612	SIP-Auth-Data-Item	Grouped	
613	SIP-Item-Number	Unsigned32	
614	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
	Reason-Info	UTF8String	
	Charging-Information	Grouped	
	Primary-Event-Charging-Function-Name	DiameterURI	
		DiameterURI	
	Secondary-Event-Charging-Function-Name		29.229 [2]
	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
	User-Authorization-Type	Enumerated	
	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	
640	Path	OctetString	
641	Contact	OctetString	

	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	
	Record-Route	OctetString	
	Associated-Registered-Identities	Grouped	
	Multiple-Registration-Indication	Enumerated	
649	Restoration-Info	Grouped	
650	Session-Priority	Enumerated	
651	Identity-with-Emergency-Registration	Grouped	
Note:	The AVP codes from 652 to 699 are reserved for TS 29.229.		
700	User-Identity	Grouped	
701	MSISDN	OctetString	
702	User-Data	OctetString	
703	Data-Reference	Enumerated	
	Service-Indication	OctetString	
	Subs-Req-Type	Enumerated	
	Requested-Domain	Enumerated	
	Current-Location	Enumerated	29.329 [4]
	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	
	One-Time-Notification	Enumerated	
	Requested-Nodes	Unsigned32	
	The AVP codes from 714 to 799 are reserved for TS 29.329.	Unalyneusz	
	The AVP codes from 800 to 822 are reserved for TS 32.329.		
	Event-Type	Crounad	
	SIP-Method	Grouped UTF8String	
	Event SIF-Method	UTF8String	
	Content-Type	UTF8String	
	Content-Length	Unsigned32	
	Content-Disposition	UTF8String	
	Role-of-Node	Enumerated	
	User-Session-Id	UTF8String	
	Calling-Party-Address	UTF8String	
	Called-Party-Address	UTF8String	
	Time-Stamps	Grouped	
	SIP-Request-Timestamp	Time	
	SIP-Response-Timestamp	Time	
	Application-Server	UTF8String	
	Application-provided-called-party-address	UTF8String	
	Inter-Operator-Identifier	Grouped	
	Originating-IOI	UTF8String	
	Terminating-IOI	UTF8String	
	IMS-Charging-Identifier	UTF8String	32.299 [5]
	SDP-Session-Description	UTF8String	02.200 [J]
	SDP-Media-Component	Grouped	
	SDP-Media-Name	UTF8String	
845	SDP-Media-Description	UTF8String	
846	CG-Address	Address	
847	GGSN-Address	Address	
848	Served-Party-IP-Address	Address	
	Authorized-QoS	UTF8String	
	Application-Server-Information	Grouped	
	Trunk-Group-Id	Grouped	
	Incoming-Trunk-Group-Id	UTF8String	
	Outgoing-Trunk-Group-Id	UTF8String	
	Bearer-Service	OctetString	
	Service-Id	UTF8String	
	Associated-URI	UTF8String	
	Charged-Party	UTF8String	
	PoC-Controlling-Address	UTF8String	
	PoC-Group-Name	UTF8String	
	Cause	Grouped	
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061	Coupo Codo	Intogor22	
	Cause-Code Node-Functionality	Integer32 Enumerated	
	Service-Specific-Data	UTF8String	
	Originator	Enumerated	
	PS-Furnish-Charging-Information	Grouped	
	PS-Free-Format-Data	OctetString	
	PS-Append-Free-Format-Data	Enumerated	
	Time-Quota-Threshold	Unsigned32	
	Volume-Quota-Trireshold	Unsigned32	
		·	
	Trigger-Type Quota-Holding-Time	Enumerated	
		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	
887	Participants-Involved	UTF8String	
888	Expires	Unsigned32	
889	Message-Body	Grouped	
890	WAG-Address	Address	
891	WAG-PLMN-Id	OctetString	
892	WLAN-Radio-Container	Grouped	
	WLAN-Technology	Unsigned32	
	WLAN-UE-Local-IPAddress	Address	
	PDG-Address	Address	
	PDG-Charging-Id	Unsigned32	
	Address-Data	UTF8String	
	Address-Domain	Grouped	
	Address-Type	Enumerated	
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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	
	MBMS-Session-Identity	OctetString	
909		UTF8String	
	Additional-MBMS-Trace-Info	OctetString	
	MBMS-Time-To-Data-Transfer	Unsigned32	00.004.5:
	MBMS-Session-Identity-Repetition-Number	Unsigned32	29.061 [13]
	MBMS-Required-QoS	UTF8String	
	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	
	MBMS-Access-Indicator	Enumerated	
	MBMS-GW-SSM-IP-Address	OctetString	

925   MBMS-GW-SSM-DY-OF-Address			
1927   MBMS-GW-UDP-Port   Cotestring	925 MBMS-GW-SSM-IPv6-Address	OctetString	
1928   MBMS-GW-UDP-Port-Indicator			
Note: The AVP codes from 929 to 999 are reserved for TS 29.081  1001 (Charging-Rule-Install Grouped Grouped Grouped Grouped 1002)  1002 (Charging-Rule-Install Grouped 1003)  1003 (Charging-Rule-Definition Grouped 1003)  1004 (Charging-Rule-Rame UTF8String 1006 (Charging-Rule-Rame UTF8String 1006 (Charging-Rule-Rame QctelString 1006 (Charging-Rule-Rame QctelString 1006 (Charging-Rule-Rame QctelString 1007 (Metering-Rule-Rame QctelString 1007 (Metering-Rule-Rame QctelString 1007 (Metering-Rule-Rame QctelString 1007 (Metering-Rule-Rame QctelString 1008 (Orline Enumerated 1008 (Orline Enumerated 1009 (O			
1000   Bearer-Usage		Enumerated	
1001   Charging-Rule-Install   Grouped   1002   Charging-Rule-Definition   Grouped   1003   Charging-Rule-Definition   Grouped   1004   Charging-Rule-Base-Name   UTF8String   1006   Charging-Rule-Base-Name   UTF8String   1006   Charging-Rule-Rame   OcteString   1007   Metering-Rule-Rame   Octes   1008   Office   Enumerated   1009   Office   Enumerated   1009   Office   Enumerated   1000   Office   Enumerated   1000   Office   Enumerated   1001   Precedence   Unsigned32   1011   Reporting-Level   Enumerated   1012   Precedence   Unsigned32   1013   TF1-Filter   IPFIlter   IPFIlterRule   1011   TF1-Titler   IPFIlterRule   1011   TF1-Titler   IPFIlterRule   1012   TF1-Titler   IPFIlterRule   1013   TF1-Packet-Filter-Information   Grouped   1014   ToS-Traffic-Class   OctetString   1015   OcS-TitlerClass   OctetString   1016   OctetString-Rule-Report   Grouped   1017   PCC-Rule-Status   Enumerated   1018   OctetString   Grouped   1019   PCC-Rule-Status   Enumerated   1010   Bearer-Identifier   OctetString   1012   Bearer-Operation   Enumerated   1012   Bearer-Operation   Enumerated   1012   Decaret   OctetString   1012   OctetString   OctetString   1013   OctetString   OctetString   1014   OctetString   OctetString   1015   OctetString   OctetString   1016   OctetString   OctetString   1017   IP-CAN-Type   Enumerated   1018   OctetString   OctetString   1019   OctetString   OctetString   OctetString   1019   OctetString   OctetString   OctetString   1019   OctetString   OctetString   OctetString   1019   OctetString   OctetString   OctetString   OctetString   1019   OctetString   OctetString   OctetString   OctetString   OctetString   1019   OctetString   OctetString   OctetString   OctetString   OctetString   OctetString   OctetString   O			
1002   Charging-Rule-Remove   Grouped   1003   Charging-Rule-Definition   Grouped   1004   Charging-Rule-Definition   Grouped   1005   Charging-Rule-Base-Name   UTF8String   1006   Charging-Rule-Base-Name   OctolString   1006   Charging-Rule-Base-Name   OctolString   1007   Metering-Nethood   Enumerated   1008   Chiline   Enumerated   1008   Chiline   Enumerated   1009   Online   Enumerated   1009   Online   Enumerated   1009   Online   Enumerated   1009   Online   Enumerated   1010   Proceedence   Unsigned52   1011   Reporting-Level   Enumerated   1012   TFT-First   First   1013   TFT-Packet-Filter-Information   Grouped   1013   TFT-Packet-Filter-Information   Grouped   1014   ToS-Traffic-Class   OctolString   1016   OoS-Information   Grouped   1019   PCC-Rule-Status   Enumerated   1019   PCC-Rule-Status   Enumerated   1019   Bearer-Operation   Enumerated   1019   Bearer-Operation   Enumerated   1020   Bearer-Control-Mode   Enumerated   1021   Bearer-Ontrol-Mode   Enumerated   1022   Access-Network-Charging-Identifier-Gx   Grouped   1023   Bearer-Control-Mode   Enumerated   1024   Network-Request-Support   Enumerated   1025   Oursalted-Bittate-Di.   Unsigned32   1027   PC-AN-Type   Enumerated   1026   Guaranteed-Bittate-Di.   Unsigned32   1027   PC-AN-Type   Enumerated   1028   OoS-Negotiation   Enumerated   1029   OoS-Negotiation   Grouped   1031   Rule-Falture-Code   Enumerated   1032   OoS-Negotiation   Grouped   1033   Chall-Paddress   Address   1036   Tunnel-Header-Filter   IPFliterRule   1037   Tunnel-Header-Filter   IPFliterRule   1038   OoS-Negotiation   Grouped   1039   OoS-Negotiation-Filter   IPFliterRule   1044   Revalidation-Time   Time   1045   Rule-DeActivation-Time   Time   1046   OoS-Rule-Instalt   Grouped   1057   OoS-Rule-Instalt   Grouped   1058   OoS-Rule-Instalt   Grouped   1059   OoS-Rule-Instalt   Grouped   1050   OoS-Rule-Instalt   Gr			
1003   Charging-Rule-Dase-Name			
1004   Charging-Rule-Base-Name			
1005   Charging-Rule-Name   OctetString   Enumerated   1007   Metering-Method   Enumerated   1008   Offline   Enumerated   1009   Online   Enumerated   1010   Precedence   Unsigned32   1011   Reporting-Level   Enumerated   1012   TET-Filter   IPFilterRule   1013   IFT-Packet-Filter-Information   Grouped   1014   ToS-Traffic-Class   OctetString   1016   OoS-Information   Grouped   1018   OctetString   OctetString   1019   PCC-Rule-Status   Enumerated   1019   PCC-Rule-Status   Enumerated   1010   Searer-Identifier   OctetString   1012   Bearer-Operation   Enumerated   1020   Bearer-Operation   Enumerated   1021   Bearer-Operation   Enumerated   1022   OctetString   1023   Bearer-Control-Mode   Enumerated   1024   Network-Request-Support   Enumerated   1025   Guaranteed-Bitrate-DL   Unsigned32   1026   Guaranteed-Bitrate-DL   Unsigned32   1027   PC-AN-Type   Enumerated   1029   OoS-Negotiation   Enumerated   1029   OoS-Negotiation   Enumerated   1021   OoS-Negotiation   Enumerated   1021   OoS-Negotiation   Enumerated   1022   OoS-Class-Identifier   Enumerated   1023   OoS-Upgrade   Enumerated   1024   Null-Failure-Code   Enumerated   1025   OoS-Negotiation   Grouped   1030   OoS-Upgrade   Enumerated   1031   Allocation-Retention-Priority   Grouped   1032   OoA-In-Header-Filter   IPFilterRule   1033   Tunnel-Header-Filter   IPFilterRule   1034   Allocation-Retention-Priority   Grouped   1035   OoA-In-Header-Length   Unsigned32   1047   Poe-emption-Valudation-Time   Time   1048   Rule-Activation-Time   Time   1049   Potalt-Ire-Bearer-OoS   Grouped   1050   OoS-Negresale-Max-Bitrate-UL   Unsigned32   1040   Potalt-Ire-Bearer-OoS   Grouped   1051   OoS-Rule-Penove   Grouped   1052   OoS-Rule-Report   Grouped   1053   OoS-Rule-Report   Grouped   1054   OoS-Rule-Report   Grouped   1055   Oos-Rule-Penove   Grouped   1056   Oos-Rule-Penove   Grouped   1057   Oos-Rule-Penove   Grouped   1058   Oos-Rule-Penove   Grouped   1059   Oos-Rule-Penove   Grouped   1059   Oos-Rule-Penove   Grouped   1059   Oos-Rule-Penove   Grou			
1006   Event-Trigger			
1007   Metering-Method			
1008 Offline			
1009   Donline			
1010   Precedence			
Time   Enumerated   Enumerated   Enumerated   Enumerated			
1012   ITFT-Filter			
1013   IFT-Packet-Filter-Information   Grouped   1014   ToS-Traffic-Class   OctetString   1016   QoS-Information   Grouped   1018   Charging-Rule-Report   Grouped   1019   PCC-Rule-Status   Enumerated   1020   Bearer-Identifier   OctetString   1021   Bearer-Operation   Enumerated   1022   Bearer-Operation   Enumerated   1023   Bearer-Control-Mode   Enumerated   1024   Network-Request-Support   Enumerated   1025   Guaranteed-Bitrate-DL   Unsigned32   1026   Guaranteed-Bitrate-UL   Unsigned32   1027   IP-CAN-Type   Enumerated   1028   QoS-Class-Identifier   Enumerated   1029   QoS-Negotiation   Enumerated   1030   QoS-Upgrade   Enumerated   1031   Rule-Failure-Code   Enumerated   1032   QoS-Pagotiation   Grouped   1033   Evan-Failure-Code   Enumerated   1033   Evan-Failure-Code   Enumerated   1034   Allocation-Retention-Priority   Grouped   1034   Allocation-Retention-Priority   Grouped   1035   Tunnel-Header-Length   Unsigned32   1036   Tunnel-Header-Length   Unsigned32   1037   Tunnel-Header-Length   Unsigned32   1038   Tunnel-Header-Length   Unsigned32   1040   APN-Aggregate-Max-Bitrate-DL   Unsigned32   1041   APN-Aggregate-Max-Bitrate-DL   Unsigned32   1042   Revalidation-Time   Time   1043   Rule-DeActivation-Time   Time   1044   Rule-DeActivation-Time   Time   1045   Session-Release-Cause   Enumerated   1046   Priority-Level   Grouped   1049   OoS-Rule-Install   Grouped   1050   AN-CW/Address   Address   1051   OoS-Rule-Nestall   Grouped   1052   OoS-Rule-Nestall   Grouped   1053   OoS-Rule-Nestall   Grouped   1054   OoS-Rule-Nestall   Grouped   1055   OoS-Rule-Nestall   Grouped   1056   OoS-Rule-Nestall   Grouped   1057   Flow-Label   OctetString   1058   Flow-Information   Grouped   1059   OctetString   OctetString   1050   OctetString   OctetString   OctetString   1050   OctetString   OctetString   OctetString   1050   OctetString   OctetString   OctetString   Oct			
1014   ToS-Traffic-Class   OctetString			
1016   CoaS-Information			
1018   Charging-Rule-Report   Grouped			
1019   PCC-Rule-Status			
1020   Bearer-Identifier			
1021   Bearer-Operation			
1023   Access-Network-Charging-Identifier-Gx			
1023   Bearer-Control-Mode	1022 Access-Network-Charging-Identifier-Gx	Grouped	
1025   Guaranteed-Bitrate-DL			
1026   Guaranteed-Bitrate-UL	1024 Network-Request-Support	Enumerated	
1027   P-CAN-Type	1025 Guaranteed-Bitrate-DL	Unsigned32	
1028   QoS-Class-Identifier	1026 Guaranteed-Bitrate-UL	Unsigned32	
1029   QoS-Negotiation		Enumerated	
1030   QoS-Upgrade		Enumerated	
1031   Rule-Failure-Code   Enumerated   1032   RAT-Type   Enumerated   1033   Event-Report-Indication   Grouped   1034   Allocation-Retention-Priority   Grouped   1034   Allocation-Retention-Priority   Grouped   1035   CoA-IP-Address   Address   IPFilterRule   IPFilterRule   1037   Tunnel-Header-Length   Unsigned32   1038   Tunnel-Information   Grouped   Grouped   1039   CoA-Information   Grouped   Unsigned32   1041   APN-Aggregate-Max-Bitrate-DL   Unsigned32   1041   APN-Aggregate-Max-Bitrate-UL   Unsigned32   1042   Revalidation-Time   Time   Time   1043   Rule-Activation-Time   Time   Time   1044   Rule-DeActivation-Time   Time   1045   Session-Release-Cause   Enumerated   1046   Priority-Level   Unsigned32   1047   Pre-emption-Capability   Enumerated   1048   Pre-emption-Capability   Enumerated   1049   Default-EPS-Bearer-QoS   Grouped   1050   QoS-Rule-Install   Grouped   1051   QoS-Rule-Install   Grouped   1052   QoS-Rule-Name   OctetString   1055   QoS-Rule-Name   OctetString   1056   Security-Parameter-Index   OctetString   1057   Flow-Label   OctetString   1058   Packet-Filter-Content   IPFilterRule   1060   Packet-Filter-Identifier   OctetString   1059   Packet-Filter-Identifier   OctetString   1060   Packet-Filter-Identifier   1060   Packet-Filter-Identifier   1060   Packet-Filter-Identifier		Enumerated	
1032   RAT-Type			
1032   EART-Type			29 212 [19]
1034 Allocation-Retention-Priority         Grouped           1035 CoA-IP-Address         Address           1036 Tunnel-Header-Filter         IPFilterRule           1037 Tunnel-Header-Length         Unsigned32           1038 Tunnel-Information         Grouped           1040 APN-Aggregate-Max-Bitrate-DL         Unsigned32           1041 APN-Aggregate-Max-Bitrate-UL         Unsigned32           1042 Revalidation-Time         Time           1043 Rule-Activation-Time         Time           1045 Session-Release-Cause         Enumerated           1046 Priority-Level         Unsigned32           1047 Pre-emption-Capability         Enumerated           1048 Pre-emption-Vulnerability         Enumerated           1049 Default-EPS-Bearer-QoS         Grouped           1050 AN-GW-Address         Address           1051 QoS-Rule-Install         Grouped           1052 QoS-Rule-Remove         Grouped           1053 QoS-Rule-Report         Grouped           1054 QoS-Rule-Report         Grouped           1055 Security-Parameter-Index         OctetString           1058 Flow-Label         OctetString           1058 Flow-Label         OctetString           1059 Packet-Filter-Content         IPFilterRule           1060 Pac			20.212[10]
1035 CoA-IP-Address         Address           1036 Tunnel-Header-Filter         IPFilterRule           1037 Tunnel-Header-Length         Unsigned32           1038 Tunnel-Information         Grouped           1039 CoA-Information         Grouped           1040 APN-Aggregate-Max-Bitrate-DL         Unsigned32           1041 APN-Aggregate-Max-Bitrate-UL         Unsigned32           1042 Revalidation-Time         Time           1043 Rule-Activation-Time         Time           1044 Rule-DeActivation-Time         Time           1045 Session-Release-Cause         Enumerated           1046 Priority-Level         Unsigned32           1047 Pre-emption-Capability         Enumerated           1048 Pre-emption-Vulnerability         Enumerated           1049 Default-EPS-Bearer-QoS         Grouped           1050 AN-GW-Address         Address           1051 QoS-Rule-Install         Grouped           1052 QoS-Rule-Remove         Grouped           1053 QoS-Rule-Report         Grouped           1055 QoS-Rule-Name         OctetString           1056 Security-Parameter-Index         OctetString           1057 Flow-Label         OctetString           1058 Flow-Information         Grouped           1059 Packet-Filter-Conten			
1036 Tunnel-Header-Filter         IPFilterRule           1037 Tunnel-Header-Length         Unsigned32           1038 Tunnel-Information         Grouped           1039 CoA-Information         Grouped           1040 APN-Aggregate-Max-Bitrate-DL         Unsigned32           1041 APN-Aggregate-Max-Bitrate-UL         Unsigned32           1042 Revalidation-Time         Time           1043 Rule-Activation-Time         Time           1044 Rule-DeActivation-Time         Time           1045 Session-Release-Cause         Enumerated           1046 Priority-Level         Unsigned32           1047 Pre-emption-Capability         Enumerated           1048 Pre-emption-Vulnerability         Enumerated           1049 Default-EPS-Bearer-QoS         Grouped           1050 AN-GW-Address         Address           1051 QoS-Rule-Install         Grouped           1052 QoS-Rule-Remove         Grouped           1053 QoS-Rule-Definition         Grouped           1054 QoS-Rule-Name         OctetString           1055 QoS-Rule-Report         Grouped           1056 Security-Parameter-Index         OctetString           1058 Plow-Label         OctetString           1059 Packet-Filter-Content         IPFilterRule           1060 Packe			
1037 Tunnel-Header-Length         Unsigned32           1038 Tunnel-Information         Grouped           1039 CoA-Information         Grouped           1040 APN-Aggregate-Max-Bitrate-DL         Unsigned32           1041 APN-Aggregate-Max-Bitrate-UL         Unsigned32           1042 Revalidation-Time         Time           1043 Rule-Activation-Time         Time           1044 Rule-DeActivation-Time         Time           1045 Session-Release-Cause         Enumerated           1046 Priority-Level         Unsigned32           1047 Pre-emption-Capability         Enumerated           1048 Pre-emption-Vulnerability         Enumerated           1049 Default-EPS-Bearer-QoS         Grouped           1050 AN-GW-Address         Address           1051 QoS-Rule-Install         Grouped           1052 QoS-Rule-Remove         Grouped           1053 QoS-Rule-Definition         Grouped           1054 QoS-Rule-Name         OctetString           1055 QoS-Rule-Report         Grouped           1056 Security-Parameter-Index         OctetString           1058 Flow-Label         OctetString           1059 Packet-Filter-Content         IPFilterRule           1060 Packet-Filter-Identifier         OctetString			
1038 Tunnel-Information         Grouped           1039 CoA-Information         Grouped           1040 APN-Aggregate-Max-Bitrate-DL         Unsigned32           1041 APN-Aggregate-Max-Bitrate-UL         Unsigned32           1042 Revalidation-Time         Time           1043 Rule-Activation-Time         Time           1044 Rule-DeActivation-Time         Time           1045 Session-Release-Cause         Enumerated           1046 Priority-Level         Unsigned32           1047 Pre-emption-Capability         Enumerated           1048 Pre-emption-Vulnerability         Enumerated           1049 Default-EPS-Bearer-QoS         Grouped           1050 AN-GW-Address         Address           1051 QoS-Rule-Install         Grouped           1052 QoS-Rule-Remove         Grouped           1053 QoS-Rule-Definition         Grouped           1054 QoS-Rule-Name         OctetString           1055 QoS-Rule-Report         Grouped           1056 Security-Parameter-Index         OctetString           1058 Flow-Label         OctetString           1059 Packet-Filter-Content         IPFrilterRule           1060 Packet-Filter-Identifier         OctetString			
1039         CoA-Information         Grouped           1040         APN-Aggregate-Max-Bitrate-DL         Unsigned32           1041         APN-Aggregate-Max-Bitrate-UL         Unsigned32           1042         Revalidation-Time         Time           1043         Rule-Activation-Time         Time           1044         Rule-DeActivation-Time         Time           1045         Session-Release-Cause         Enumerated           1046         Priority-Level         Unsigned32           1047         Pre-emption-Capability         Enumerated           1048         Pre-emption-Vulnerability         Enumerated           1049         Default-EPS-Bearer-QoS         Grouped           1051         QoS-Rule-Ps-Bearer-QoS         Grouped           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           1058         Flow-Information         Grouped           1059         Packet-Filter-			
1040         APN-Aggregate-Max-Bitrate-DL         Unsigned32           1041         APN-Aggregate-Max-Bitrate-UL         Unsigned32           1042         Revalidation-Time         Time           1043         Rule-Activation-Time         Time           1044         Rule-DeActivation-Time         Time           1045         Session-Release-Cause         Enumerated           1046         Priority-Level         Unsigned32           1047         Pre-emption-Capability         Enumerated           1048         Pre-emption-Vulnerability         Enumerated           1049         Default-EPS-Bearer-QoS         Grouped           1050         AN-GW-Address         Address           1051         QoS-Rule-Install         Grouped           1052         QoS-Rule-Remove         Grouped           1053         QoS-Rule-Definition         Grouped           1054         QoS-Rule-Name         OctetString           1055         QoS-Rule-Report         Grouped           1056         Security-Parameter-Index         OctetString           1057         Flow-Label         OctetString           1058         Flow-Information         Grouped           1059         Packet-Filter-Content <td></td> <td></td> <td></td>			
1041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated1046Priority-LevelUnsigned321047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString1055QoS-Rule-ReportGrouped1056Security-Parameter-IndexOctetString1057Flow-LabelOctetString1058Flow-InformationGrouped1059Packet-Filter-ContentIPFilterRule1060Packet-Filter-IdentifierOctetString			
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1043 Rule-Activation-TimeTime1044 Rule-DeActivation-TimeTime1045 Session-Release-CauseEnumerated1046 Priority-LevelUnsigned321047 Pre-emption-CapabilityEnumerated1048 Pre-emption-VulnerabilityEnumerated1049 Default-EPS-Bearer-QoSGrouped1050 AN-GW-AddressAddress1051 QoS-Rule-InstallGrouped1052 QoS-Rule-RemoveGrouped1053 QoS-Rule-DefinitionGrouped1054 QoS-Rule-NameOctetString1055 QoS-Rule-ReportGrouped1056 Security-Parameter-IndexOctetString1057 Flow-LabelOctetString1058 Flow-InformationGrouped1059 Packet-Filter-ContentIPFilterRule1060 Packet-Filter-IdentifierOctetString			
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1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString1055QoS-Rule-ReportGrouped1056Security-Parameter-IndexOctetString1057Flow-LabelOctetString1058Flow-InformationGrouped1059Packet-Filter-ContentIPFilterRule1060Packet-Filter-IdentifierOctetString			
1049 Default-EPS-Bearer-QoS         Grouped           1050 AN-GW-Address         Address           1051 QoS-Rule-Install         Grouped           1052 QoS-Rule-Remove         Grouped           1053 QoS-Rule-Definition         Grouped           1054 QoS-Rule-Name         OctetString           1055 QoS-Rule-Report         Grouped           1056 Security-Parameter-Index         OctetString           1057 Flow-Label         OctetString           1058 Flow-Information         Grouped           1059 Packet-Filter-Content         IPFilterRule           1060 Packet-Filter-Identifier         OctetString	1048 Pre-emption-Vulnerability		
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			
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			
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			
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			
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1058 Flow-InformationGrouped1059 Packet-Filter-ContentIPFilterRule1060 Packet-Filter-IdentifierOctetString			
1059 Packet-Filter-Content     IPFilterRule       1060 Packet-Filter-Identifier     OctetString			
	1059 Packet-Filter-Content		
1061 Packet-Filter-Information Grouped	1060 Packet-Filter-Identifier	OctetString	
	1061 Packet-Filter-Information	Grouped	

1000 D 1 1 E'' 0 1		
1062 Packet-Filter-Operation	Enumerated	
1063 Resource-Allocation-Notification	Enumerated	
1064 Session-Linking-Indicator	Enumerated	
1065 PDN-Connection-ID	OctetString	
1066 Monitoring-Key	OctetString	
1067 Usage-Monitoring-Information	Grouped	
1068 Usage-Monitoring-Level	Enumerated	
1069 Usage-Monitoring-Report	Enumerated	
1070 Usage-Monitoring-Support	Enumerated	
1071 CSG-Information-Reporting	Enumerated	
1072 Packet-Filter-Usage	Enumerated	
1073 Charging-Correlation-Indicator	Enumerated	
1074 QoS-Rule-Base-Name	UTF8String	
1075 reserved		
1076 reserved		
1077 reserved		
1078 reserved		
1079 reserved		
1080 Flow-Direction	Enumerated	
Note: The AVP codes from 1081 to 1099 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	
1109 Routeing-Address	UTF8String	29.140 [16]
1110 Originating-Interface	Enumerated	20.110 [10]
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key	UTF8String	
1115 Billing-Information	UTF8String	
1116 Status	Grouped	
1117 Status-Code	UTF8String	
1118 Status-Text	UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	OTF6Stillig	
1200 Domain-Name	UTF8String	
1200 Domain-Name 1201 Recipient-Address		
1201 Recipient-Address 1202 Submission-Time	Grouped Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size	Unsigned32	
1207 Additional-Content-Information	Grouped	
1208 Addressee-Type	Enumerated	
1209 Priority	Enumerated	
1210 Message-ID	UTF8String	
1211 Message-Type	Enumerated	
1212 Message-Size	Unsigned32	32.299 [5]
1213 Message-Class	Grouped	
1214 Class-Identifier	Enumerated	
1215 Token-Text	UTF8String	
1216 Delivery-Report-Requested	Enumerated	
1217 Adaptations	Enumerated	
1218 Applic-ID	UTF8String	
1219 Aux-Applic-Info	UTF8String	
1220 Content-Class	Enumerated	
1221 DRM-Content	Enumerated	
1222 Read-Reply-Report-Requested	Enumerated	
1223 Reply-Applic-ID	UTF8String	
1224 File-Repair-Supported	Enumerated	
1224 File-Repail-Supported	Liluillelateu	

International Content	1225 MBMS-User-Service-Type	Enumerated	
1227   PDP-Address			
1228   SGSN-Address			
1229   DeC-Session-Id			
1230   Gefered-Location-Even-Type			
1231   LCS-Client-Name			
1233   CS-Client-Daled-By-MS			
1233   C.SClient-Dalacl-By-MS			
1234 LCS-Client-Name   Grouped			
1236 LCS-Dala-Coding-Scheme	1233 LCS-Client-Dialed-By-MS	UTF8String	
1236   LCS-Data-Coding-Scheme	1234 LCS-Client-External-ID	UTF8String	
1236   LCS-Data-Coding-Scheme	1235 LCS-Client-Name	Grouped	
1237   ICS-Format-Indicator   Enumerated     1238   ICS-Name-String   UTF8String     1239   ICS-Requestor-Id-String   UTF8String     1239   ICS-Requestor-Id-String   UTF8String     1241   ICS-Client-Type   Enumerated     1242   Iccation-Estimate   OctetString     1243   Iccation-Estimate   OctetString     1244   Iccation-Estimate   OctetString     1245   Iccation-Estimate   UTF8String     1246   Iccation-Type   Grouped     1247   ICPS-Clining-Data   UTF8String     1246   ICCATION-Session-Id   UTF8String     1246   ICCATION-Session-Id   UTF8String     1247   ICPS-Context-Type   Enumerated     1248   ICCATION-Session-Id   UTF8String     1249   ICCATION-Session-Id   UTF8String     1249   ICCATION-Session-Id   Grouped     1249   ICCATION-Session-Id   UTF8String     1250   ICalled-Assented-Identity   UTF8String     1251   ICCATION-Session-Id-Id   UTF8String     1252   ICCATION-Session-Id-Id   UTF8String     1253   ICCATION-Session-Id-Id   UTF8String     1254   ICCATION-Session-Id-Id   UTF8String     1255   ICATION-Session-Id-Id   UTF8String     1256   ICATION-Session-Id-Id   UTF8String     1257   ICATION-Session-Id-Id   UTF8String     1258   ICCATION-Session-Id-Id   UTF8String     1259   ICATION-Session-Id-Id   UTF8String     1250   ICATION-Session-Id-Id   UTF8String     1251   ICATION-Session-Id-Id   UTF8String     1252   ICATION-Session-Id-Id   UTF8String     1253   ICATION-Session-Id-Id   UTF8String     1254   ICCATION-Session-Id-Id   UTF8String     1255   ICATION-Session-Id-Id   UTF8String     1256   ICATION-Session-Id-Id-Id-Id-Id-Id-Id-Id-Id-Id-Id-Id-Id-	1236 LCS-Data-Coding-Scheme		
1238   CCS-Name-String			
1239   LCS-Requestor-Id-String			
1240   LCS-Requestor-Id-String			
1241   LCS-Client-Type   Enumerated   1242   Location-Estimate   OctetString   1243   Location-Estimate-Type   Enumerated   1244   Location-Type   Grouped   1245   Positioning-Data   UTF8String   1246   Positioning-Data   UTF8String   1247   PDP-Context-Type   Enumerated   UTF8String   1247   PDP-Context-Type   Enumerated   1248   Service-Specific-Info   Grouped   1249   Service-Specific-Info   Grouped   1250   Called-Asserted-Identity   UTF8String   1251   Requested-Party-Address   UTF8String   1252   Poc-User-Role-Info-Units   UTF8String   1252   Poc-User-Role-Info-Units   UTF8String   1253   Poc-User-Role-Info-Units   UTF8String   1254   Poc-User-Role-Info-Units   UTF8String   1255   Talk-Burst-Exchange   Grouped   1253   Poc-User-Role-Info-Units   Enumerated   1255   Talk-Burst-Exchange   Grouped   1256   Service-Specific-Type   Unsigned32   1256   Event-Charging-TimeStamp   Time   1259   Participant-Access-Priority   Unsigned32   1258   Event-Charging-TimeStamp   Time   1259   Participant-Access-Priority   Enumerated   1260   Participant-Group   Grouped   1261   Poc-Change-Time   Time   1263   Access-Network-Information   OctetString   Grouped   1265   Base-Time-Interval   Unsigned32   1266   Envelope-Start-Time   Time   1266   Envelope-Start-Time   Time   1270   Time-Quota-Mechanism   Grouped   1277   Envelope-Start-Time   Time   1270   Time-Quota-Mechanism   Grouped   1271   Time-Quota-Mechanism   Grouped   1272   SDP-Answer-Timestamp   Time   1270   Time-Quota-Mechanism   Grouped   1271   Time-Quota-Mechanism   Grouped   1272   SDP-Answer-Timestamp   Time   1276   Envelope-Start-Time   Time   1276   Envelope-TimeStamp   Time   1276   Envelope-TimeStamp   Time   1276   Envelope-TimeStamp   Time   1276   Envelope-TimeStamp   Time   1276   Envelope-TimeStam			
1243   Location-Estimate			
1243   Location-Estimate-Type   Enumerated   1244   Location-Type   Grouped   1245   Positioning-Data   UTF8String   1246   WLAN-Session-Id   UTF8String   1247   PDP-Context-Type   Enumerated   1247   PDP-Context-Type   Enumerated   1248   PMSex-Specific-Info   Grouped   1250   Called-Asserted-Identity   UTF8String   1251   Requested-Party-Address   UTF8String   1252   PGC-User-Role   Grouped   1250   Called-Asserted-Identity   UTF8String   1252   PGC-User-Role-Info-Units   UTF8String   1253   PGC-User-Role-Info-Units   UTF8String   1254   PGC-User-Role-Info-Units   Enumerated   1255   Talk-Burst-Exchange   Grouped   1256   Service-Generic-Information   Grouped   1256   Service-Generic-Information   Grouped   1257   Service-Specific-Type   Unsigned32   1258   Event-Charging-TimeStamp   Time   1259   Participant-Group   Grouped   1260   PGC-Change-Conditions   Enumerated   1271   Time-Change   1271   Time-Change   1271   Time-Change   1272   1271   Time-Change   1272   1271   1			
1244   Location-Type		<u> </u>	
1246   WAN-Session-Id	<b>7</b> 1		
1246   WLAN-Session-Id			
PDP-Context-Type			
1248   MMBox-Storage-Requested   Enumerated		· · · · · · · · · · · · · · · · · · ·	
1249   Service-Specific-Info   Grouped		Enumerated	
1250   Called-Asserted-Identity	1248 MMBox-Storage-Requested	Enumerated	
1250   Called-Asserted-Identity	1249 Service-Specific-Info	Grouped	
1251   Requested-Party-Address   UTF8String   PoC-User-Role   Grouped   PoC-User-Role   UTF8String   1254   PoC-User-Role-IDS   UTF8String   1254   PoC-User-Role-Info-Units   Enumerated   1255   Talk-Burst-Exchange   Grouped   1256   Service-Generic-Information   Grouped   1257   Service-Specific-Type   Unsigned32   1258   Event-Charging-TimeStamp   Time   1259   Participant-Access-Priority   Enumerated   1260   Participant-Group   Grouped   1261   PoC-Change-Conditions   Enumerated   1262   PoC-Change-Conditions   Enumerated   1262   PoC-Change-Time   Time   1263   Access-Network-Information   OctetString   Trigger   Grouped   1265   Base-Time-Interval   Unsigned32   1266   Envelope   Grouped   1265   Base-Time-Interval   Unsigned32   1266   Envelope-Reporting   Enumerated   1269   Envelope-Reporting   Enumerated   1269   Envelope-Reporting   Enumerated   1269   Envelope-Reporting   Enumerated   1270   Time-Quota-Mechanism   Grouped   1271   Time-Quota-Mechanism   Grouped   1271   Time-Quota-Mechanism   Grouped   1273   SDP-InmeStamp   Time   1273   SDP-InmeStamp   Time   1276   AF-Correlation-Information   Grouped   1277   PoC-Session-Initiation-type   Enumerated   1279   User-Participating-Type   Enumerated   1279   1270   1			
1252   PoC-User-Role   Grouped			
1253   PoC-User-Role-InDs			
1254   PoC-User-Role-info-Units   Enumerated   1255   Talk-Burst-Exchange   Grouped   1256   Service-Generic-Information   Grouped   1257   Service-Specific-Type   Unsigned32   1258   Event-Charging-TimeStamp   Time   1259   Participant-Access-Priority   Enumerated   1260   Participant-Group   Grouped   1261   PoC-Change-Conditions   Enumerated   1262   PoC-Change-Conditions   Enumerated   1263   Access-Network-Information   OctetString   Grouped   1264   Trigger   Grouped   1265   Base-Time-Interval   Unsigned32   1266   Envelope   Grouped   1267   Envelope-Reporting   Enumerated   1268   Envelope-Reporting   Enumerated   1269   Envelope-Start-Time   Time   1270   Time-Quota-Mechanism   Grouped   1271   Time-Quota-Mechanism   Grouped   1272   Early-Media-Description   Grouped   1273   SDP-TimeStamps   Grouped   1274   SDP-Offer-Timestamp   Time   1276   AF-Correlation-Information   Grouped   1277   SDP-Answer-Timestamp   Time   1276   AF-Correlation-Information   Grouped   1279   User-Participating-Type   Enumerated   1279   User-Participating-Type   Enumerated   1270   User-Participating-Type   Enumerated   1271   User-Participating-Type   Enumerated   1271   User-Participating-Type   Enumerated   1271   User-Participating-Type   Enumerated   1271   127			
Talk-Burst-Exchange   Grouped		Ŭ	
1256   Service-Generic-Information   Grouped   1257   Service-Specific-Type   Unsigned32   1258   Event-Charging-TimeStamp   Time   1259   Participant-Access-Priority   Enumerated   1260   Participant-Group   Grouped   1261   PoC-Change-Conditions   Enumerated   1262   PoC-Change-Time   Time   1263   Access-Network-Information   OctetString   1264   Trigger   Grouped   1265   Base-Time-Interval   Unsigned32   1266   Envelope   Grouped   1268   Envelope   Grouped   1269   Envelope-Reporting   Enumerated   1260   Envelope-Reporting   Enumerated   1260   Envelope-Start-Time   Time   1270   Time-Quota-Type   Enumerated   1271   Time-Quota-Type   Enumerated   1272   Early-Media-Description   Grouped   1273   SDP-TimeStamps   Grouped   1274   SDP-Offer-Timestamp   Time   1276   SDP-Answer-Timestamp   Time   1277   SDP-Answer-Timestamp   Time   1278   AF-Correlation-Information   Grouped   1279   User-Participating-Type   Enumerated   1279   User-Participating-Type   Enumerated   1270   Alternate-Charged-Party-Address   UTF8String   1281   IMS-Communication-Service-Identifier   UTF8String   1283   Number-Of-Talk-Bursts   Unsigned32   1284   Received-Talk-Bursts   Unsigned32   1285   Received-Talk-Burst-Volume   Unsigned32   1286   Talk-Burst-Volume   Unsigned32   1287   Talk-Burst-Volume   Unsigned32   1288   Media-Initiator-Party   UTF8String   1289   Media-Initiator-Party   UTF8String   1280   Media-Initiator-Party   UTF8String   UTF8String			
1257   Service-Specific-Type			
1258   Event-Charging-TimeStamp   Time   1259   Participant-Access-Priority   Enumerated   1260   Participant-Access-Priority   Grouped   1261   PoC-Change-Conditions   Enumerated   1262   PoC-Change-Time   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-Mechanism   Grouped   1271   Time-Quota-Mechanism   Grouped   1273   SDP-TimeStamps   Grouped   1274   SDP-Offer-Timestamp   Time   1275   SDP-Answer-Timestamp   Time   1276   AF-Correlation-Information   Grouped   1277   PoC-Session-Information   Grouped   1277   PoC-Session-Information   Grouped   1278   Offline-Charging   Grouped   1279   User-Participating-Type   Enumerated   1279   User-Participating-Type   Enumerated   1279   User-Participating-Type   Enumerated   1270   User-Participating-Type   Enumerated   1270   User-Participating-Type   Enumerated   1271   Number-Of-Received-Talk-Bursts   Unsigned32   1283   Number-Of-Talk-Bursts   Unsigned32   1284   Received-Talk-Bursts   Unsigned32   1285   Received-Talk-Burst-Volume   Unsigned32   1286   Talk-Burst-Volume   Unsigned32   1288   Media-Initiator-Party   UTF8String   1288   M			
1259   Participant-Access-Priority   Enumerated   1260   Participant-Group   Grouped   1261   PoC-Change-Conditions   Enumerated   1262   PoC-Change-Time   Time   Time   1263   Access-Network-Information   OctetString   Grouped   1264   Trigger   Grouped   1265   Base-Time-Interval   Unsigned32   1266   Envelope   Grouped   Grouped   1267   Envelope-End-Time   Time   Time   1268   Envelope-End-Time   Time   Time   1269   Envelope-Start-Time   Time   1270   Time-Quota-Mechanism   Grouped   1271   Time-Quota-Mechanism   Grouped   1272   Early-Media-Description   Grouped   1273   SDP-TimeStamps   Grouped   1274   SDP-Offer-Timestamp   Time   1276   AF-Correlation-Information   Grouped   1276   AF-Correlation-Information   Grouped   1277   PoC-Session-Initiation-type   Enumerated   1278   Offline-Charging   Grouped   1279   User-Participating-Type   Enumerated   1279   1280   Alternate-Charged-Party-Address   UTF8String   1281   IMS-Communication-Service-Identifier   UTF8String   1282   Number-Of-Talk-Bursts   Unsigned32   1284   Received-Talk-Bursts   Unsigned32   1285   Received-Talk-Burst-Volume   Unsigned32   1286   Talk-Burst-Volume   Unsigned32   1287   Talk-Burst-Volume   Unsigned32   1288   Media-Initiator-Party   UTF8String   1288   Media-Initiator-Party   UTF8String   1288   1288   Media-Initiator-Party   UTF8String   1288   1288   1288   Media-Initiator-Party   UTF8String   1289			
1260   Participant-Group   Grouped     1261   PoC-Change-Conditions   Enumerated     1262   PoC-Change-Time   Time     1263   Access-Network-Information   OctetString     1264   Trigger   Grouped     1265   Base-Time-Interval   Unsigned32     1266   Envelope   Grouped     1267   Envelope-End-Time   Time     1268   Envelope-Reporting   Enumerated     1269   Envelope-Start-Time   Time     1270   Time-Quota-Mechanism   Grouped     1271   Time-Quota-Type   Enumerated     1272   Early-Media-Description   Grouped     1273   SDP-TimeStamps   Grouped     1274   SDP-Offer-Timestamp   Time     1275   SDP-Answer-Timestamp   Time     1276   AF-Correlation-Information   Grouped     1277   Top-C-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-Raceived-Talk-Bursts   Unsigned32     1283   Received-Talk-Burst-Time   Unsigned32     1286   Talk-Burst-Volume   Unsigned32     1287   Talk-Burst-Volume   Unsigned32     1288   Media-Initiator-Party   UTF8String     1280   Media-Initiator-Party   UTF8String     1280   Media-Initiator-Party   UTF8String     1281   Media-Initiator-Party   UTF8String   UTF8String     1282   Media-Initiator-Party   UTF8String     1284   Media-Initiator-Party   UTF8String   UTF8String     1285   Media-Initiator-Party   UTF8String   UTF8String   UTF8String			
1261 PoC-Change-Conditions			
1262   PoC-Change-Time   Time   1263   Access-Network-Information   OctetString   1264   Trigger   Grouped   1265   Base-Time-Interval   Unsigned32   1266   Envelope   Grouped   Grouped   1267   Envelope-End-Time   Time   Time   1268   Envelope-Reporting   Enumerated   1269   Envelope-Reporting   Enumerated   1270   Time-Quota-Mechanism   Grouped   1271   Time-Quota-Mechanism   Grouped   1271   Time-Quota-Type   Enumerated   1272   Early-Media-Description   Grouped   1273   SDP-TimeStamps   Grouped   1274   SDP-Offer-Timestamp   Time   1276   AF-Correlation-Information   Grouped   1277   PoC-Session-Initiation-type   Enumerated   1278   Offline-Charging   Grouped   1279   User-Participating-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-Talk-Bursts   Unsigned32   1283   Number-Of-Talk-Bursts   Unsigned32   1284   Received-Talk-Burst-Time   Unsigned32   1285   Received-Talk-Burst-Volume   Unsigned32   1286   Talk-Burst-Volume   Unsigned32   1287   Talk-Burst-Volume   Unsigned32   1288   Media-Initiator-Party   UTF8String   1288   1288   1288   Media-Initiator-Party   UTF8String   1288		Grouped	
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-Mechanism   Grouped     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   Received-Talk-Burst-Time   Unsigned32     1286   Talk-Burst-Volume   Unsigned32     1287   Talk-Burst-Time   Unsigned32     1288   Media-Initiator-Party   UTF8String	1261   PoC-Change-Conditions	Enumerated	
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-Mechanism   Grouped     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     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 Received-Talk-Burst-Time   Unsigned32     1286 Talk-Burst-Volume   Unsigned32     1287 Talk-Burst-Time   Unsigned32     1288 Media-Initiator-Party   UTF8String	1262 PoC-Change-Time	Time	
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-Mechanism   Grouped     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   Received-Talk-Burst-Time   Unsigned32     1286   Ralk-Burst-Time   Unsigned32     1287   Talk-Burst-Volume   Unsigned32     1288   Media-Initiator-Party   UTF8String     UTF8String   UTF8String     1288   Media-Initiator-Party   UTF8String     1288   Media-Initiator-Party   UTF8String     1288   Media-Initiator-Party   UTF8String     1288   Media-Initiator-Party   UTF8String     1286   Media-Initiator-Party   UTF8String     1287   Talk-Burst-Volume   Unsigned32     1288   Media-Initiator-Party   UTF8String     1288   Media-Initiator-Party   UTF8String	1263 Access-Network-Information	OctetString	
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-Mechanism   Grouped     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   Received-Talk-Burst-Time   Unsigned32     1286   Ralk-Burst-Time   Unsigned32     1287   Talk-Burst-Volume   Unsigned32     1288   Media-Initiator-Party   UTF8String     1286   Media-Initiator-Party   UTF8String     1286   Media-Initiator-Party   UTF8String     1286   Media-Initiator-Party   UTF8String	1264 Trigger	Grouped	
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   Received-Talk-Burst-Time   Unsigned32     1286   Talk-Burst-Time   Unsigned32     1287   Talk-Burst-Time   Unsigned32     1288   Media-Initiator-Party   UTF8String			
1267Envelope-End-TimeTime1268Envelope-ReportingEnumerated1269Envelope-Start-TimeTime1270Time-Quota-MechanismGrouped1271Time-Quota-TypeEnumerated1272Early-Media-DescriptionGrouped1273SDP-TimeStampsGrouped1274SDP-Offer-TimestampTime1275SDP-Answer-TimestampTime1276AF-Correlation-InformationGrouped1277PoC-Session-Initiation-typeEnumerated1279User-Participating-TypeEnumerated1280Alternate-Charged-Party-AddressUTF8String1281IMS-Communication-Service-IdentifierUTF8String1282Number-Of-Received-Talk-BurstsUnsigned321283Number-Of-Talk-BurstsUnsigned321285Received-Talk-Burst-TimeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-TimeUnsigned321288Media-Initiator-PartyUTF8String		<u> </u>	
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-Burst-Time   Unsigned32     1286   Received-Talk-Burst-Volume   Unsigned32     1287   Talk-Burst-Volume   Unsigned32     1288   Media-Initiator-Party   UTF8String     1280   Media-Initiator-Party   UTF8String     1280   Media-Initiator-Party   UTF8String			
1269Envelope-Start-TimeTime1270Time-Quota-MechanismGrouped1271Time-Quota-TypeEnumerated1272Early-Media-DescriptionGrouped1273SDP-TimeStampsGrouped1274SDP-Offer-TimestampTime1275SDP-Answer-TimestampTime1276AF-Correlation-InformationGrouped1277PoC-Session-Initiation-typeEnumerated1278Offline-ChargingGrouped1279User-Participating-TypeEnumerated1280Alternate-Charged-Party-AddressUTF8String1281IMS-Communication-Service-IdentifierUTF8String1282Number-Of-Received-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-TimeUnsigned321288Media-Initiator-PartyUTF8String			
1270Time-Quota-MechanismGrouped1271Time-Quota-TypeEnumerated1272Early-Media-DescriptionGrouped1273SDP-TimeStampsGrouped1274SDP-Offer-TimestampTime1275SDP-Answer-TimestampTime1276AF-Correlation-InformationGrouped1277PoC-Session-Initiation-typeEnumerated1278Offline-ChargingGrouped1279User-Participating-TypeEnumerated1280Alternate-Charged-Party-AddressUTF8String1281IMS-Communication-Service-IdentifierUTF8String1282Number-Of-Received-Talk-BurstsUnsigned321283Number-Of-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String			
1271Time-Quota-TypeEnumerated1272Early-Media-DescriptionGrouped1273SDP-TimeStampsGrouped1274SDP-Offer-TimestampTime1275SDP-Answer-TimestampTime1276AF-Correlation-InformationGrouped1277PoC-Session-Initiation-typeEnumerated1278Offline-ChargingGrouped1279User-Participating-TypeEnumerated1280Alternate-Charged-Party-AddressUTF8String1281IMS-Communication-Service-IdentifierUTF8String1282Number-Of-Received-Talk-BurstsUnsigned321283Number-Of-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String			
1272Early-Media-DescriptionGrouped1273SDP-TimeStampsGrouped1274SDP-Offer-TimestampTime1275SDP-Answer-TimestampTime1276AF-Correlation-InformationGrouped1277PoC-Session-Initiation-typeEnumerated1278Offline-ChargingGrouped1279User-Participating-TypeEnumerated1280Alternate-Charged-Party-AddressUTF8String1281IMS-Communication-Service-IdentifierUTF8String1282Number-Of-Received-Talk-BurstsUnsigned321283Number-Of-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String			
1273 SDP-TimeStampsGrouped1274 SDP-Offer-TimestampTime1275 SDP-Answer-TimestampTime1276 AF-Correlation-InformationGrouped1277 PoC-Session-Initiation-typeEnumerated1278 Offline-ChargingGrouped1279 User-Participating-TypeEnumerated1280 Alternate-Charged-Party-AddressUTF8String1281 IMS-Communication-Service-IdentifierUTF8String1282 Number-Of-Received-Talk-BurstsUnsigned321283 Number-Of-Talk-BurstsUnsigned321284 Received-Talk-Burst-TimeUnsigned321285 Received-Talk-Burst-VolumeUnsigned321286 Talk-Burst-TimeUnsigned321287 Talk-Burst-VolumeUnsigned321288 Media-Initiator-PartyUTF8String			
1274SDP-Offer-TimestampTime1275SDP-Answer-TimestampTime1276AF-Correlation-InformationGrouped1277PoC-Session-Initiation-typeEnumerated1278Offline-ChargingGrouped1279User-Participating-TypeEnumerated1280Alternate-Charged-Party-AddressUTF8String1281IMS-Communication-Service-IdentifierUTF8String1282Number-Of-Received-Talk-BurstsUnsigned321283Number-Of-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String			
1275SDP-Answer-TimestampTime1276AF-Correlation-InformationGrouped1277PoC-Session-Initiation-typeEnumerated1278Offline-ChargingGrouped1279User-Participating-TypeEnumerated1280Alternate-Charged-Party-AddressUTF8String1281IMS-Communication-Service-IdentifierUTF8String1282Number-Of-Received-Talk-BurstsUnsigned321283Number-Of-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String			
1276AF-Correlation-InformationGrouped1277PoC-Session-Initiation-typeEnumerated1278Offline-ChargingGrouped1279User-Participating-TypeEnumerated1280Alternate-Charged-Party-AddressUTF8String1281IMS-Communication-Service-IdentifierUTF8String1282Number-Of-Received-Talk-BurstsUnsigned321283Number-Of-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String			
1277PoC-Session-Initiation-typeEnumerated1278Offline-ChargingGrouped1279User-Participating-TypeEnumerated1280Alternate-Charged-Party-AddressUTF8String1281IMS-Communication-Service-IdentifierUTF8String1282Number-Of-Received-Talk-BurstsUnsigned321283Number-Of-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String			
1277PoC-Session-Initiation-typeEnumerated1278Offline-ChargingGrouped1279User-Participating-TypeEnumerated1280Alternate-Charged-Party-AddressUTF8String1281IMS-Communication-Service-IdentifierUTF8String1282Number-Of-Received-Talk-BurstsUnsigned321283Number-Of-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String	1276 AF-Correlation-Information	Grouped	
1278Offline-ChargingGrouped1279User-Participating-TypeEnumerated1280Alternate-Charged-Party-AddressUTF8String1281IMS-Communication-Service-IdentifierUTF8String1282Number-Of-Received-Talk-BurstsUnsigned321283Number-Of-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String	1277 PoC-Session-Initiation-type	Enumerated	
1279User-Participating-TypeEnumerated1280Alternate-Charged-Party-AddressUTF8String1281IMS-Communication-Service-IdentifierUTF8String1282Number-Of-Received-Talk-BurstsUnsigned321283Number-Of-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String			
1280 Alternate-Charged-Party-AddressUTF8String1281 IMS-Communication-Service-IdentifierUTF8String1282 Number-Of-Received-Talk-BurstsUnsigned321283 Number-Of-Talk-BurstsUnsigned321284 Received-Talk-Burst-TimeUnsigned321285 Received-Talk-Burst-VolumeUnsigned321286 Talk-Burst-TimeUnsigned321287 Talk-Burst-VolumeUnsigned321288 Media-Initiator-PartyUTF8String			
1281IMS-Communication-Service-IdentifierUTF8String1282Number-Of-Received-Talk-BurstsUnsigned321283Number-Of-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String		1	
1282Number-Of-Received-Talk-BurstsUnsigned321283Number-Of-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String			
1283Number-Of-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String			
1284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String			
1285Received-Talk-Burst-VolumeUnsigned321286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String			
1286Talk-Burst-TimeUnsigned321287Talk-Burst-VolumeUnsigned321288Media-Initiator-PartyUTF8String			
1287 Talk-Burst-VolumeUnsigned321288 Media-Initiator-PartyUTF8String			
1288 Media-Initiator-Party UTF8String			
Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299		UTF8String	
	Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299		

1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	
1403 Software-Version	UTF8String	
1404 QoS-Subscribed	UTF8String	
1405 ULR-Flags	Unsigned32	
1406 ULA-Flags	Unsigned32	
1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info	OctetString	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped Grouped	
1410 Number-Of-Requested-Vectors	Unsigned32	
1411 Re-Synchronization-Info	OctetString	
1412 Immediate-Response-Preferred	Unsigned32	
1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	
1417 Network-Access-Mode	Enumerated	
1418 HPLMN-ODB	Enumerated	
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
1426 Access-Restriction-Data	UTF8String	
1427 APN-OI-Replacement	UTF8String	
1428 All-APN-Configurations-Included-Indicator	Enumerated	
1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile	Grouped	
1432 VPLMN-Dynamic-Address-Allowed	Enumerated	29.272 [21]
1433 STN-SR	OctetString	
1434 Alert-Reason	Enumerated	
1435 AMBR 1436 CSG-Subscription-Data	Grouped	
1437 CSG-Subscription-Data	Grouped Unsigned32	
1437 CSG-Id 1438 PDN-GW-Allocation-Type	Enumerated	
1439 Expiration-Date	Time	
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32	
1441 IDA-Flags	Unsigned32	
1442 PUA-Flags	Unsigned32	
1443 NOR-Flags	Unsigned32	
1444 User-Id	UTF8String	
1445 Equipment-Status	Enumerated	
1446 Regional-Subscription-Zone-Code	OctetString	
1447 RAND	OctetString	
1448 XRES	OctetString	
1449 AUTN	OctetString	
1450 KASME	OctetString	
1451 Reserved		
1452 Trace-Collection-Entity	Address	
1453 Kc	OctetString	
1454 SRES	OctetString	
1455 Reserved	-	
1456 PDN-Type	Enumerated	
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated	
1458 Trace-Data	Grouped	
1459 Trace-Reference	OctetString	
1460 Reserved		
1461 Reserved	- Frumerated	
1462 Trace-Depth	Enumerated	
1463 Trace-NE-Type-List 1464 Trace-Interface-List	OctetString	
TT404TTT3CE-INTERFACE-LIST	OctetString	

A 405 T	T 0 1 101 :	
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	
1478 Notification-To-UE-User	Enumerated	
1479 External-Client	Grouped	
1480 Client-Identity	OctetString	
1481 GMLC-Restriction	Enumerated	
1482 PLMN-Client	Enumerated	
1483 Service-Type	Grouped	
1484 ServiceTypeIdentity	Unsigned32	
1485 MO-LR	Grouped	
1486 Teleservice-List	Grouped	
1487 TS-Code	Enumerated	
1488 Call-Barring-Info	Grouped	
1489 SGSN-Number	OctetString	
1490 IDR-Flags	Unsigned32	
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	
1440GIEDS Location Information		
1496 EPS-Location-Information	Grouped	
1497 MME-User-State	Grouped	
1497 MME-User-State 1498 SGSN-User-State	Grouped Grouped	
1497 MME-User-State	Grouped	
1497 MME-User-State 1498 SGSN-User-State 1499 User-State	Grouped Grouped Enumerated	
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data	Grouped Grouped Enumerated Grouped	
1497 MME-User-State 1498 SGSN-User-State 1499 User-State  1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access	Grouped Grouped Enumerated Grouped Enumerated	
1497 MME-User-State 1498 SGSN-User-State 1499 User-State  1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN	Grouped Grouped Enumerated Grouped Enumerated Enumerated Enumerated	
1497       MME-User-State         1498       SGSN-User-State         1499       User-State         1500       Non-3GPP-User-Data         1501       Non-3GPP-IP-Access         1502       Non-3GPP-IP-Access-APN         1503       AN-Trusted	Grouped Grouped Enumerated Grouped Enumerated Enumerated Enumerated Enumerated	29 273 [20]
1497       MME-User-State         1498       SGSN-User-State         1499       User-State         1500       Non-3GPP-User-Data         1501       Non-3GPP-IP-Access         1502       Non-3GPP-IP-Access-APN         1503       AN-Trusted         1504       ANID	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String	29.273 [20]
1497       MME-User-State         1498       SGSN-User-State         1499       User-State         1500       Non-3GPP-User-Data         1501       Non-3GPP-IP-Access         1502       Non-3GPP-IP-Access-APN         1503       AN-Trusted         1504       ANID         1505       Trace-Info	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped	29.273 [20]
1497       MME-User-State         1498       SGSN-User-State         1499       User-State         1500       Non-3GPP-User-Data         1501       Non-3GPP-IP-Access         1502       Non-3GPP-IP-Access-APN         1503       AN-Trusted         1504       ANID         1505       Trace-Info         1506       MIP-FA-RK	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString	29.273 [20]
1497       MME-User-State         1498       SGSN-User-State         1499       User-State         1500       Non-3GPP-User-Data         1501       Non-3GPP-IP-Access         1502       Non-3GPP-IP-Access-APN         1503       AN-Trusted         1504       ANID         1505       Trace-Info         1506       MIP-FA-RK         1507       MIP-FA-RK-SPI	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped	29.273 [20]
1497       MME-User-State         1498       SGSN-User-State         1499       User-State         1500       Non-3GPP-User-Data         1501       Non-3GPP-IP-Access         1502       Non-3GPP-IP-Access-APN         1503       AN-Trusted         1504       ANID         1505       Trace-Info         1506       MIP-FA-RK	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString	29.273 [20]
1497       MME-User-State         1498       SGSN-User-State         1499       User-State         1500       Non-3GPP-User-Data         1501       Non-3GPP-IP-Access         1502       Non-3GPP-IP-Access-APN         1503       AN-Trusted         1504       ANID         1505       Trace-Info         1506       MIP-FA-RK         1507       MIP-FA-RK-SPI	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString	29.273 [20]
1497       MME-User-State         1498       SGSN-User-State         1499       User-State         1500       Non-3GPP-User-Data         1501       Non-3GPP-IP-Access         1502       Non-3GPP-IP-Access-APN         1503       AN-Trusted         1504       ANID         1505       Trace-Info         1506       MIP-FA-RK         1507       MIP-FA-RK-SPI         Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32	29.273 [20]
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped	29.273 [20]
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped Grouped Grouped OctetString	29.273 [20]
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped Grouped OctetString OctetString OctetString OctetString	29.273 [20]
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped Grouped OctetString OctetString OctetString OctetString	29.273 [20]
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1605 Routing-Area-Identity	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped Grouped OctetString OctetString OctetString OctetString OctetString	29.273 [20]
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped Grouped OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString	29.273 [20]
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped Grouped OctetString	29.273 [20]
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped OctetString	29.273 [20]
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped OctetString	29.273 [20]
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information 1610 Current-Location-Retrieved	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped OctetString	
1497 MME-User-State 1498 SGSN-User-State 1499 User-State  1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped OctetString	
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped OctetString	
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped OctetString	
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Routing-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved 1614 Error-Diagnostic	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped OctetString	
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved 1614 Error-Diagnostic 1615 Reserved	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped OctetString	
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Routing-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved 1614 Error-Diagnostic	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped OctetString Enumerated Unsigned32 Grouped Enumerated	
1497 MME-User-State 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved 1614 Error-Diagnostic 1615 Reserved	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped OctetString CotetString OctetString OctetString OctetString Enumerated Unsigned32 Grouped - Enumerated	
1497MME-User-State1498SGSN-User-State1499User-State1500Non-3GPP-User-Data1501Non-3GPP-IP-Access1502Non-3GPP-IP-Access-APN1503AN-Trusted1504ANID1505Trace-Info1506MIP-FA-RK1507MIP-FA-RK-SPINote: The AVP codes from 1508 to 1599 are reserved for TS 29.2731600MME-Location-Information1601SGSN-Location-Information1602E-UTRAN-Cell-Global-Identity1603Tracking-Area-Identity1604Cell-Global-Identity1605Routing-Area-Identity1606Location-Area-Identity1607Service-Area-Identity1608Geographical-Information1609Geodetic-Information1610Current-Location-Retrieved1611Age-Of-Location-Information1612Active-APN1613Reserved1614Error-Diagnostic1615Reserved	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped OctetString Enumerated Unsigned32 Grouped - Enumerated - Enumerated	
1497         MME-User-State           1498         SGSN-User-State           1499         User-State           1500         Non-3GPP-User-Data           1501         Non-3GPP-IP-Access           1502         Non-3GPP-IP-Access-APN           1503         AN-Trusted           1504         ANID           1505         Trace-Info           1506         MIP-FA-RK           1507         MIP-FA-RK-SPI           Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273           1600         MME-Location-Information           1601         SGSN-Location-Information           1602         E-UTRAN-Cell-Global-Identity           1603         Tracking-Area-Identity           1604         Cell-Global-Identity           1605         Routing-Area-Identity           1606         Location-Area-Identity           1607         Service-Area-Identity           1608         Geographical-Information           1610         Current-Location-Retrieved           1611         Age-Of-Location-Information           1612         Active-APN           1613         Reserved           1614         Error-Diagnostic           1615	Grouped Grouped Enumerated  Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32  Grouped OctetString Enumerated Unsigned32 Grouped - Enumerated - Enumerated	

1620 Ext-PDP-Type	OctetString	
1621 Ext-PDP-Address	Address	
1622 Reserved	-	
1623 Reserved	-	
1624 Reserved	-	
1625 Reserved	-	
1626 Reserved	-	
1627 Reserved 1628 Reserved	-	
1629 Reserved	-	
1630 Reserved	-	
1631 Reserved	-	
1632 Reserved	_	
1633 Reserved	_	
1634 Reserved	-	
1635 Reserved	-	
1636 Reserved	-	
1637 Reserved	-	
1638 CLR-Flags	Unsigned32	
1639 Reserved	-	
1640 Reserved	-	
1641 Reserved	-	
1642 Reserved	-	
1643 Reserved	-	
1644 Reserved	-	
1645 Reserved	-	
1646 Reserved	-	
1647 Reserved	-	
1648 Reserved 1649 Reserved	-	
1650 Reserved	-	
1651 GMLC-Info	Grouped	
1652 GMLC-Name	DiameterIdentity	
1653 GMLC-Realm	DiameterIdentity	
Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272.	Biamotoriacinity	
2000 SMS-Information	Grouped	
2001 Data-Coding-Scheme	Integer32	
2002 Destination-Interface	Grouped	
2003 Interface-Id	UTF8String	
2004 Interface-Port	UTF8String	
2005 Interface-Text	UTF8String	
2006 Interface-Type	Enumerated	
2007 SM-Message-Type	Enumerated	
2008 Originating-SCCP-Address	Address	
2009 Originator-Interface	Grouped	
2010 Recipient-SCCP-Address	Address	
2011 Reply-Path-Requested	Enumerated	
2012 SM-Discharge-Time 2013 SM-Protocol-ID	Time	
2013   SM-Protocol-ID	OctetString OctetString	
2015 SM-User-Data-Header	OctetString	32.299 [5]
2016 SMS-Node	Enumerated	
2017 SMSC-Address	Address	
2018 Client-Address	Address	
2019 Number-of-Messages-Sent	Unsigned32	
2020 Low-Balance-Indication	Enumerated	
2021 Remaining-Balance	Grouped	
2022 Refund-Information	OctetString	
2023 Carrier-Select-Routing-Information	UTF8String	
2024 Number-Portability-Routing-Information	UTF8String	
2025 PoC-Event-Type	Enumerated	
2026 Recipient-Info	Grouped	
2027 Originator-Received-Address	Grouped	
2028 Recipient-Received-Address	Grouped	
2029 SM-Service-Type	Enumerated	

2030 MMTel-Information	Grouped	
2031 MMTel-Signaturi 2031 MMTe	Grouped Unsigned32	
2032 Service-Mode	Unsigned32	
2033 Subscriber-Role	Enumerated	
2034 Number-Of-Diversions	Unsigned32	
2035 Associated-Party-Address	UTF8String	
2036 SDP-Type	Enumerated	
2037 Change-Condition	Integer32	
2038 Change-Time	Time	
2039 Diagnostics	Integer32	
2040 Service-Data-Container	Grouped	
2041 Start-Time	Time	
2042 Stop-Time	Time	
2043 Time-First-Usage	Time	
2044 Time-Last-Usage	Time	
2045 Time-Usage	Unsigned32	
2046 Traffic-Data-Volumes	Grouped	
2047 Serving-Node-Type	Enumerated	
2048 Supplementary-Service	Grouped	
2049 Participant-Action-Type	Enumerated	
2050 PDN-Connection-Charging-ID	Unsigned32	
2051 Dynamic-Address-Flag	Enumerated	
2052 Accumulated-Cost	Grouped	
2053 AoC-Cost-Information	Grouped	
2054 AoC-Information	Grouped	
2055 AoC-Request-Type	Enumerated	
2056 Current-Tariff	Grouped	
2057 Next-Tariff	Grouped	
2058 Rate-Element	Grouped	
2059 Scale-Factor	Grouped	
2060 Tariff-Information	Grouped	
2061 Unit-Cost	Grouped	
2062 Incremental-Cost	Grouped	
2063 Local-Sequence-Number	Unsigned32	
2064 Node-Id	UTF8String	
2065 SGW-Change	Enumerated	
2066 Charging-Characteristic-Selection-Mode	Enumerated	
2067 SGW-Address	Address	
2067 SGW-Address 2068 Dynamic-Address-Flag-Extension	Enumerated	
	Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299	T T	
2100 reserved	- LITEOCHINA	
2101 Application-Server-ID	UTF8String	
2102 Application-Service-Type	Enumerated	
2103 Application-Session-ID	Unsigned32	
2104 Delivery-Status	UTF8String	
2105 reserved	-	
2106 reserved	-	
2107 reserved	-	
2108 reserved	-	
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	29.215 [22]
2203 Subsession-Operation	Enumerated	
2204 Multiple-BBERF-Action	Enumerated	

Note: The AVP codes from 2205 to 2299 are reserved for TS 29.215		
2300 reserved	T -	
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	
2312 AoC-Service-Obligatory-Type	Grouped	32.299 [5]
2313 AoC-Service-Obligatory-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	Unsigned32	
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 Enumerated	
2322 IMS-Emergency-Indicator	Enumerated	
2323 MBMS-Charged-Party Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299	Enumerated	
	O at at Ctuin a	
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	00 470 [05]
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	Course a rate of	
2500 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	29.172 [24]
2512 LCS-Privacy-Check	Enumerated	
2513 Accuracy-Fulfilment-Indicator	Enumerated	
2514 Age-Of-Location-Estimate	Unsigned32	
2515 Velocity-Estimate	OctetString	
2516 EUTRAN-Positioning-Data	OctetString	
2517 ECGI	OctetString	
2518 Location-Event	Enumerated	
2519 Pseudonym-Indicator	Enumerated	
2520 LCS-Service-Type-ID	Unsigned32	
2521 LCS-Privacy-Check-Non-Session	Grouped	
2522 LCS-Privacy-Check-Session	Grouped	
2523 LCS-QoS-Class	Enumerated	
Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172		

#### 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 Experime	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.	
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]
Note: The Experimental Result Codes from 2022 to 2040 are reserved for the TS 29.061		
		29.109 [7]
Note: The Experime	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.	

#### 8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]
4100	DIAMETER_USER_DATA_NOT_AVAILABLE DIAMETER_PRIOR_UPDATE_IN_PROGRESS	29.329 [4]
	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.	
	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]
	ntal Result Codes from 4121 to 4140 are reserved for the TS 29.061.	29.061 [13]
	DIAMETER_PCC_BEARER_EVENT	29.212 [19]
	DIAMETER_BEARER_EVENT	
Note: The Experime	ntal Result Codes from 4143 to 4160 are reserved for the TS 29.212	00.000 [5]
		32.299 [5]
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.	
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	29.272 [21]
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.	
4201	DIAMETER_ERROR_ABSENT_USER	29.173 [25]
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.	
4221	DIAMETER_ERROR_UNREACHABLE_USER	
4222	DIAMETER_ERROR_SUSPENDED_USER	
4223	DIAMETER_ERROR_DETACHED_USER	00 470 (0.4)
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]
4225	DIAMETER_ERROR_POSITIONING_FAILED	
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT	
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.	

#### 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	20.220 [2]
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5010	DIAMETER ERROR FEATURE UNSUPPORTED	
		2 20 220
Note. The Expe	erimental Result Codes from 5012 to 5020 are reserved for the TS	
Nata The Cons	rise and all Descrit Orders from 5004 to 5040 are recorded for the T	32.299 [5]
	erimental Result Codes from 5021 to 5040 are reserved for the TS	5 32.299.
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC	29.234 [6]
	RIPTION	20.201[0]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	
Note: The Expe	erimental Result Codes from 5046 to 5060 are reserved for the T	S 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	101 000 00
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	29.209 [8],
5064	DUPLICATED_AF_SESSION	29.211 [17],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.214 [18]
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	
and and	erimental Result Codes from 5067 to 5080 are reserved for TS 29 TS 29.214.	9.209, TS 29.211
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	29.329 [4]
5105	DIAMETER_ERROR_TRANSPARENT_DATA	29.029 [4]
	OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
Note: The Expe	erimental Result Codes from 5109 to 5119 are reserved for the T	S 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
	erimental Result Codes from 5124 to 5139 are reserved for the T	S 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	29.212 [19]
5145	DIAMETER QOS_RULE_EVENT	
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
	erimental Result Codes from 5148 to 5159 are reserved for the To	S 29.212
5401	DIAMETER_ERROR_IMPI_UNKNOWN	J 20.212.
5401	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5402	DIAMETER_ERROR_NOT_AOTHORIZED  DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	23.103[/
		20.400
	erimental Result Codes from 5404 to 5419 are reserved for the TS	o ∠9.109.
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	erimental Result Codes from 5424 to 5449 are reserved for the TS	S 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	erimental Result Codes from 5453 to 5469 are reserved for the TS	S 29.273.
5470	DIAMETER_ERROR _SUBSESSION	29.215 [22]
Note: The Experimental Result Codes from 5471 to 5489 are reserved for the TS 29.215.		
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET	29.173 [25]
	WORK	28.173 [23]
Note: The Expe	erimental Result Codes from 5491 to 5509 are reserved for the TS	S 29.173.

# 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

TSG #   TSG Doc.   CR   Rev   Subject/Comment   Old   New	Change history							
2004-09   CN#25   NP-940401   001   Correction of Charging application reference   6.0.0   6.1.0   2004-09   CN#25   NP-940401   003   Removal of User Data Request Type AVP   6.0.0   6.1.0   6.1.0   6.2.0   6.0.0   6.1.0   6.0.0			1	CR	Rev	Subject/Comment		
2004-09   CN#25								
2004-09   CN#25 NP-04041   003	2004-09						6.0.0	
2004-19   CN825 NP-040579   106							6.0.0	
2004-12   CNy26   NP-040579   006   Inclusion of missing Cx AVPs   6.1.0   6.2.0   2004-12   CNy26   NP-040579   009   1   Addition of Gmb interface   6.1.0   6.2.0   2004-12   CNy26   NP-040579   009   1   Addition of Gmb interface   6.1.0   6.2.0   2004-12   CNy26   NP-040579   011   Gg interface allocations   6.1.0   6.2.0   2004-12   CNy26   NP-040579   011   Gg interface allocations   6.1.0   6.2.0   2004-12   CNy26   NP-040579   011   Gg interface allocations   6.1.0   6.2.0   2004-12   CNy26   NP-040579   012   Addition of Gx interface   6.1.0   6.2.0   2004-12   CNy26   NP-040579   012   Addition of Gx interface   6.1.0   6.2.0   2005-03   CNy27   NP-050039   043   Allocations for Gw interface   NP-050039   045								
2004-12   CN26 NP-040590   1					1			
2004-12   CNe26 NP.040679   009   1								
2004-12   CN#26   NP-040800   01   2   Documenting the Reuse of the 3GPP specific application identifier   6.1.0   6.2.0					1			
OR 0 f Re 0 in the Charging Interfaces								
2004-12   CN#26 NP-040579   011   Gi interface allocations	2004-12	CN#26	NP-040600	010	2		6.1.0	6.2.0
2005-03	0004.40	ON1//00	ND 040570	044			0.4.0	0.00
NP-950047   040   1   WLAN Diameter AVP and result codes   NP-950039   043   Allocations for Gr. interface   NP-950039   045   Allocations for Gr. interface   NP-950039   046   Allocations for Gr. interface   NP-950039   046   Allocations for Gr. interface   NP-950039   046   Allocations for MMS, MM10 Interface   NP-950039   045   Addition of Maximum-Number-Accesses AVP   NP-9500310   0505   Addition of Maximum-Number-Accesses AVP   NP-9500310   0505   Addition of Pr reference point to TS 29-230   NP-950310   0505   Addition of Pr reference point to TS 29-230   NP-950310   0505   Addition of Pr reference point to TS 29-230   NP-950310   NP-9503								
NP-050039   043					4			
NP-050030   045   Allocations for Gmb interface	2005-03	CN#27			1		6.2.0	6.3.0
NP-050039   046   Allocations for MMS, MM10 Interface   CP-050038   0505   CP-05038   0505   CP-050310   CP-050310   O551   Addition of Maximum-Number-Accesses AVP   6.4.0   6.5.0							ļ	
CP-050088   0050   Cx interface allocation correction   CP-050098   0050   Cx interface allocation correction   CP-050196   0051   Addition of Maximum-Number-Accesses AVP   6.4.0   6.5.0		}					-	
CP-050196   OS01   1   Addition of Maximum-Number-Accesses AVP	2005.00	CT#20					620	6.4.0
CP-050440   OSC2   1	2005-06	C1#26			1		6.3.0	6.4.0
CP-050310   0053	2005.00	CT#20			1		640	6 5 0
CP-050310   0054   Error code cleanup   CP-050310   0056   Addition of Rx ref. point and renaming of Experimental Result   Codes   Addition of Rx ref. point and renaming of Experimental Result   Codes   CP-050310   0056   Addition of GUSS timestamp AVP   CP-050612   0058   Addition of GBA-Type AVP   7.0.0   7.1.0   CP-050612   0065   CP-050612   0065   Reservation of AVP codes for 32.299   CP-050625   0066   Management of Sh subscriptions   CP-060073   0069   Additional Gmb AVP Allocation   CP-060073   0069   Adding data type of some of WLAN-related AVPs   7.1.0   7.2.0   CP-060084   0071   User-Data in the response to Sh-Subs-Notif   CP-060084   0072   1 New error indications for the Sh-Subs-Notif   CP-060084   0072   1 New error indications for the Sh-Subs-Notif   CP-060084   0072   1 New error indications for the Sh-Subs-Notif   CP-060084   0072   1 New AVP Code   7.3.0   7.4.0   CP-060417   0080   Errors to be sent in response to Sh-Notif   CP-060417   0081   Definition of specific Diameter codes for DSAI   CP-060560   0085   1 Optimization of handling of Wildcarded PSIs   CP-060560   0085   Addition of Specific Diameter codes for Emergency Purposes   CP-060566   0091   Allocation of Diameter Error Code for Emergency Purposes   CP-060566   0091   Allocation of Success Result Code Range for Gi Interface   CP-070020   0093   Allocation of September   CP-070020   0093   Allocation of Septem	2005-09	01#29			1		0.4.0	0.5.0
CP-050310   0056		}					1	
Codes							ł	
2005-09   CT#29   CP-050317   0055   Addition of GUSS timestamp AVP   6.5.0   7.0.0   CP-050612   0063   Addition of GBA-Type AVP   7.0.0   7.1.0   CP-050612   0063   Addition of GBA-Type AVP   7.0.0   7.1.0   CP-050612   0065   Reservation of AVP Allocation   CP-050612   0065   Reservation of AVP Codes for 32.299   CP-050612   0066   Management of Sh subscriptions   CP-060073   0069   Additional Gmb AVP Allocation   CP-060073   0069   Additional Gmb AVP Allocation   CP-060084   0077   1 New error indications for the Sh-Subs-Notif   CP-060084   0072   1 New error indications for the Sh-Subs-Notif   CP-060084   0072   1 New error indications for the Sh-Subs-Notif   CP-060084   0072   1 New error indications for the Sh-Subs-Notif   CP-060470   0073   S-CSCF reselection removal   7.2.0   7.3.0   7.4.0   CP-060471   0073   New AVP Code   CP-060471   0074   0075   S-CSCF reselection removal   7.2.0   7.3.0   7.4.0   CP-060471   0077   3 New AVP Code   CP-060471   0080   Errors to be sent in response to Sh-Notif   CP-060471   0080   Errors to be sent in response to Sh-Notif   CP-060471   0081   Definition of specific Diameter codes for DSAl   CP-060565   0065   Addition of Diameter Error Code for Emergency Purposes   CP-060565   0087   Allocation of new AVP codes for Gmb   CP-060565   0087   Allocation of new AVP code Range for Gil Interface   CP-070020   0093   Allocation of new AVP code Range for Gil Interface   CP-070020   0093   Allocation of new AVP code Range for Gil Interface   CP-070020   0093   Allocation of new AVP code for DSAl-Tag AVP   CP-070020   0093   Allocation of new AVP code for DSAl-Tag AVP   CP-0700312   0098   Experimental-Result-Codes for Gmb interface   CP-070312   0094   AVP code reservation for 32.299 in Rel-8   CP-070735   0101   AVP code reservation for 32.299 in Rel-8   CP-080015   0107   Wildca			CF-050510	0036				
CP-050624   OS65	2005-09	CT#20	CP-050317	0055			650	700
CP-050612   0063								
CP-050612   0065   Reservation of AVP codes for 32.299	2003-12	01#30					7.0.0	7.1.0
CP-050625 0066							1	
CP-060073   CP-060084   O77   User-Data in the response to Sh-Subs-Notif   CP-060084   O77   User-Data in the response to Sh-Subs-Notif   CP-060084   O77   1   New error indications for the Sh-Subs-Notif   O7.2.0   7.3.0		ŀ					i	
CP-060084   0071   User-Data in the response to Sh-Subs-Notif	2006-03	CT#31					710	720
CP-060084   0772   1   New error indications for the Sh-Subs-Notif procedure   7.2.0   7.3.0	2000 00	01//01					1	7.2.0
2006-06					1		i	
CP-060417   0077   3   New AVP Code   CP-060417   0080   Errors to be sent in response to Sh-Notif   CP-060417   0081   Definition of specific Diameter codes for DSAI   CP-060456   0085   1   Optimization of specific Diameter codes for DSAI   7.4.0   7.5.0   CP-060562   0086   Addition of Diameter Error Code for Emergency Purposes   CP-060555   0087   Allocation of new AVP code for Gmb   CP-060555   0089   AVP code allocations for Rf and Ro interfaces   CP-060555   0089   AVP code allocations for Rf and Ro interfaces   CP-060555   0099   Allocation of Success Result Code Range for Gi Interface   CP-070020   0093   Allocation of new AVP code for DSAI-Tag AVP   CP-070020   0093   Allocation of new AVP code for DSAI-Tag AVP   CP-070020   0093   Allocation of Experimental-Result-Code AVP for Gi Interface   7.6.0   CP-070318   0096   Diameter application ID for the Rei-7 Rx interface   7.6.0   7.7.0   CP-070312   0098   Experimental-Result-Codes for Gmb   Interface   CP-070312   0098   Correction of Diameter AVP code allocation   7.7.0   7.8.0   CP-070312   0100   Correction of Diameter AVP code allocation   7.7.0   7.8.0   CP-070312   0104   AVP code reservation for 32.299 in Rei-7   Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol   7.7.0   7.8.0   CP-070312   0105   AVP code reservation for 32.299 in Rei-8   CP-080019   0111   AVP code reservation for 32.299 in Rei-8   CP-080019   0109   Correction on AVP code allocation reservation for TS 32.299 in Rei-8   CP-080019   0112   Correction on AVP code allocation reservation for TS 32.299 in Rei-7   CP-080040   0113   Correction on AVP code allocation reservation for TS 32.299 in Rei-7   CP-080040   0114   A VP code reservation for TS 32.299 in Rei-8   CP-080040   0117   A new Diameter Permanent Failure Code for Gx   8.1.0   8.2.0   8.3.0   8.3.0   CT#41   CP-080460   0122   STaMIP Application Id   CP-08	2006-06	CT#32					7.2.0	7.3.0
CP-060417   0080   Errors to be sent in response to Sh-Notif   CP-060417   0081   Definition of specific Diameter codes for DSAI   7.4.0   7.5.0					3			
CP-060417   0081   Definition of specific Diameter codes for DSAI					_			
CT#34		Ì					i	
CP-060562   0086   Addition of Diameter Error Code for Emergency Purposes	2006-12	CT#34			1		7.4.0	7.5.0
CP-060555   0087			CP-060562	0086			Ī	
CP-060566   0091   Allocation of Success Result Code Range for Gi Interface		Ì	CP-060555	0087			Ī	
CP-070020   O993   C3 requested addition of new AVP code values to 3GPP TS 29.230   CP-070020   O993   Allocation of new AVP code for DSAI-Tag AVP		Ì	CP-060555	0089		AVP code allocations for Rf and Ro interfaces	Ī	
CP-070020   0093   Allocation of new AVP code for DSAI-Tag AVP			CP-060566	0091		Allocation of Success Result Code Range for Gi Interface	Ī	
CP-070020   0093   Allocation of Experimental-Result-Code AVP for Gi Interface   7.6.0   7.7.0	2007-03	CT#35	CP-070020	0093		C3 requested addition of new AVP code values to 3GPP TS 29.230	7.5.0	7.6.0
2007-06   CT#36   CP-070318   0096   Diameter application ID for the Rel-7 Rx interface   CP-070312   0098   Experimental-Result-Codes for Gmb interface   CP-070312   0100   Correction of Diameter AVP code allocation   CP-070312   0100   Application ID for Gx protocol   CT#37   CP-070527   0102   Application ID for Gx protocol   CT#38   CP-070743   0104   AVP code reservation for 32.299 in Rel-7   C7.8.0   Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol   CT#38   CP-070755   0101   AVP code reservation for 32.299 in Rel-8   CP-080015   0109   Correction of reference to TS 29.140   CP-080019   0111   AVP code reservation for TS 32.299 in Rel-8   CP-080019   0107   Wildcarded Public User Identities   CP-080191   0112   Correction on AVP code allocation reservation for TS 32.299 in Rel-8   CP-080204   0113   1 Correction on AVP code allocation reservation for TS 32.299 in Rel-8   CP-080204   0113   1 Correction on AVP code allocation reservation for TS 32.299 in Rel-8   CP-080204   0113   1 Correction on AVP code allocation reservation for TS 32.299 in Rel-8   CP-080204   0113   1 Correction on AVP code allocation reservation for TS 32.299 in Rel-8   CP-080204   0113   1 Correction on AVP code allocation reservation for TS 32.299 in Rel-8   CP-080204   0113   1 Correction on AVP code allocation reservation for TS 32.299 in Rel-8   CP-080267   0117   1 A new Diameter Permanent Failure Code for Gx   8.1.0   8.2.0   8.3.0   CT#41   CP-080460   0121   Support of "Loose-Route" indication from HSS   CP-080460   0121   Stamili Application Id			CP-070020	0093		Allocation of new AVP code for DSAI-Tag AVP		
CP-070312   0.098   Experimental-Result-Codes for Gmb interface   CP-070312   0.100   Correction of Diameter AVP code allocation   7.7.0   7.8.0   2007-09   CT#37   CP-070527   0.102   Application ID for Gx protocol   7.7.0   7.8.0   2007-12   CT#38   CP-070743   0.104   AVP code reservation for 32.299 in Rel-7   7.8.0   7.9.0   Allocation of 3GPP specific AVP codes and Experimental Result   Codes for Gx protocol   Codes for Gx protocol   Codes for Gx protocol   CP-070755   0.101   4   AVP assignments to support SIP Digest Authentication   7.9.0   8.0.0   AVP code reservation for 32.299 in Rel-8   CP-080015   0.109   Correction of reference to TS 29.140   8.0.0   CP-080019   0.111   AVP code reservation for TS 32.299 in Rel-8   CP-080019   0.111   AVP code reservation for TS 32.299 in Rel-8   CP-080191   0.112   Correction on AVP code allocation reservation for TS 32.299 in Rel-7   CP-080204   0.113   Correction on AVP code allocation reservation for TS 32.299   CP-080267   0.117   A new Diameter Permanent Failure Code for Gx   8.1.0   8.2.0   CP-080460   0.121   Support of "Loose-Route" indication from HSS   CP-080460   0.122   STAMIP Application Id			CP-070020	0093		Allocation of Experimental-Result-Code AVP for Gi Interface		
CP-070312   0100   Correction of Diameter AVP code allocation	2007-06	CT#36	CP-070318	0096		Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
2007-09   CT#37   CP-070527   0102   Application ID for Gx protocol   7.7.0   7.8.0						Experimental-Result-Codes for Gmb interface	]	
CT#38							<u> </u>	<u></u>
CP-070755   Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol	2007-09	CT#37	CP-070527	0102		Application ID for Gx protocol	7.7.0	7.8.0
Codes for Gx protocol   C7438	2007-12	CT#38	CP-070743				7.8.0	7.9.0
CT#38				0105				
CT#39						Codes for Gx protocol		
CT#39	2007-12	CT#38	CP-070755		4		7.9.0	8.0.0
CP-080019   0111   AVP code reservation for TS 32.299 in Rel-8   Wildcarded Public User Identities   CP-080191   0112   Correction on AVP code allocation reservation for TS 32.299 in Rel-7   CP-080204   0113   Correction on AVP code allocation reservation for TS 32.299   CT#40   CP-080267   0117   A new Diameter Permanent Failure Code for Gx   8.1.0   8.2.0   CT#41   CP-080460   0121   Support of "Loose-Route" indication from HSS   CP-080460   0122   STaMIP Application Id								
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	2008-03	CT#39					8.0.0	8.1.0
CP-080191   0112   1   Correction on AVP code allocation reservation for TS 32.299 in Rel-7		[					1	
Rel-7   CP-080204   0113   1   Correction on AVP code allocation reservation for TS 32.299   2008-06   CT#40   CP-080267   0117   1   A new Diameter Permanent Failure Code for Gx   8.1.0   8.2.0   2008-09   CT#41   CP-080456   0119   Emergency Public User Identity Removal   8.2.0   8.3.0   2008-09   CT#41   CP-080460   0121   1   Support of "Loose-Route" indication from HSS   CP-080460   0122   1   STaMIP Application Id								
CP-080204   0113   1   Correction on AVP code allocation reservation for TS 32.299			CP-080191	0112	1			
2008-06         CT#40         CP-080267         0117         1         A new Diameter Permanent Failure Code for Gx         8.1.0         8.2.0           2008-09         CT#41         CP-080456         0119         Emergency Public User Identity Removal         8.2.0         8.3.0           2008-09         CT#41         CP-080460         0121         1         Support of "Loose-Route" indication from HSS           2008-09         CT#41         CP-080460         0122         1         STaMIP Application Id		İ	CP-080204	0113	1		i	
2008-09         CT#41         CP-080456         0119         Emergency Public User Identity Removal         8.2.0         8.3.0           2008-09         CT#41         CP-080460         0121         1         Support of "Loose-Route" indication from HSS           2008-09         CT#41         CP-080460         0122         1         STaMIP Application Id	2008-06	CT#40					8.1.0	8.2.0
2008-09         CT#41         CP-080460         0121         1         Support of "Loose-Route" indication from HSS           2008-09         CT#41         CP-080460         0122         1         STaMIP Application Id			CP-080456	0119				
2008-09 CT#41 CP-080460 0122 1 STaMIP Application Id					1		Ī	
		Į.					1	
							Ī	1

					Assignment)	]	
2008-09	CT#41	CP-080463			New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42	CP-080691			Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691			Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044		_	Update for ReadyForSM Handling LCS Subscription Data	8.4.0	8.5.0
2009-03 2009-03	CT#43 CT#43	CP-090044 CP-090026		1	Update for Restoration	8.4.0 8.4.0	8.5.0 8.5.0
2009-03	CT#43	CP-090026			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033		2	Applid and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	AVP codes for S9 protocol	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024			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			Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299		4	Update of the AVP Codes	8.5.0	8.6.0
		CP-090299			AVP code reservation for TS 32.299		
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"		
			0146		Removal of Requesting Node Type from AIR	4	
		CP-090299			S6b Application ID		
2009-09	CT#45	CP-090530			Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
		CP-090530			AVP code allocation for TS 29.212	4	
		CP-090531			Update of the AVP type for the User-Id	╣	
	0=::1=	CP-090531			Trace Depth per session		
2009-09	CT#45	CP-090557			AVP code range for charging	8.7.0	9.0.0
2009-12	CT#46	CP-090800		1	ICS-Flag	9.0.0	9.1.0
		CP-091032	0160		From GMLC-Address to GMLC-Number Session-Priority AVP	-	
			0163		Introduction of SLh application related AVPs and Experimental		
			0166	2	Result codes Missing AVP error codes	_	
		CP-090797		1	Introduction of SLg application related AVPs and Application	-	
					Identifier		
2010-03	CT#47	CP-100031	0158	1	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		1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109	-	
		CP-100046 CP-100048		4	Error codes in 29.172 for SLg AVPs in 29.272 for TADS support	-	
		CP-100048		1	Error codes in 29.272 for Unknown MME		
		CP-100040		4	EPS Subcsriber State and Location Information Request		
		CP-100033		7	One time notification AVP allocation		
		CP-100046			Addition of the LCS-QoS-Class attribute value		İ
		CP-100175			Introduction of the LCS-Capabilities-Sets AVP in SLh interface		İ
2010-06	CT#48	CP-100263		1	AVP Codes for PCC	9.2.0	9.3.0
			0183		EPS state and location retrieval		
	İ	CP-100287	0186		SGmb Application ID		ĺ
		CP-100277			New APVs in S6a protocol		
2010-09	CT#49	CP-100463		1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces	9.3.0	9.4.0
		CP-100464			AVP Codes Allocation for PCC		
2010-12	CT#50	CP-100679		3	S6a Error Diagnostic	9.4.0	9.5.0
2011-03	CT#51	CP-110051 CP-110054			PDP Address correction	9.5.0	9.6.0
	i .	- CP-110054	10214		Essential correction on the value type of the ELP Application AVPs		9.7.0
2011 00	CT#E2			2	Handling of DTD for Emergancy Degistration	060	18.7.U
2011-06	CT#52	CP-110349	0219		Handling of RTR for Emergency Registration	9.6.0	
2011-06	CT#52	CP-110349 CP-110347	0219 0230		Add AVPs from QSPEC cleanup	9.6.0	
		CP-110349 CP-110347 CP-110359	0219 0230 0225		Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces		
2011-06	CT#52 CT#53	CP-110349 CP-110347 CP-110359 CP-110552	0219 0230 0225 0248		Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061	9.6.0	9.8.0
		CP-110349 CP-110347 CP-110359 CP-110552 CP-110554	0219 0230 0225 0248 0243		Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061 AVP code alignment with 29.214		
		CP-110349 CP-110347 CP-110359 CP-110552	0219 0230 0225 0248 0243 0238		Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061		
		CP-110349 CP-110347 CP-110359 CP-110552 CP-110554 CP-110555	0219 0230 0225 0248 0243 0238 0251		Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061 AVP code alignment with 29.214 AVP code alignment with 32.299 Failure code alignment with 29.212 AVP code alignment with 29.212		
		CP-110349 CP-110347 CP-110359 CP-110552 CP-110554 CP-110555 CP-110555	0219 0230 0225 0248 0243 0238 0251 0235 0260		Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061 AVP code alignment with 29.214 AVP code alignment with 32.299 Failure code alignment with 29.212 AVP code alignment with 29.212 New AVP codes for MBMS IP unicast encapsulation		
2011-09	CT#53	CP-110349 CP-110347 CP-110359 CP-110554 CP-110555 CP-110555 CP-110559	0219 0230 0225 0248 0243 0238 0251 0235 0260 0263	1	Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061 AVP code alignment with 29.214 AVP code alignment with 32.299 Failure code alignment with 29.212 AVP code alignment with 29.212 New AVP codes for MBMS IP unicast encapsulation New AVP codes for MBMS IP multicast encapsulation	9.7.0	9.8.0
2011-09	CT#53	CP-110349 CP-110347 CP-110359 CP-110554 CP-110555 CP-110555 CP-110559	0219 0230 0225 0248 0243 0238 0251 0235 0260 0263 0269	1	Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061 AVP code alignment with 29.214 AVP code alignment with 32.299 Failure code alignment with 29.212 AVP code alignment with 29.212 New AVP codes for MBMS IP unicast encapsulation New AVP codes for MBMS IP multicast encapsulation MME-Realm AVP code allocation and update	9.7.0	9.8.0
2011-09	CT#53	CP-110349 CP-110347 CP-110359 CP-110552 CP-110555 CP-110555 CP-110559 CP-110775	0219 0230 0225 0248 0243 0238 0251 0235 0260 0263 0269 0279	1	Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061 AVP code alignment with 29.214 AVP code alignment with 32.299 Failure code alignment with 29.212 AVP code alignment with 29.212 New AVP codes for MBMS IP unicast encapsulation New AVP codes for MBMS IP multicast encapsulation MME-Realm AVP code allocation and update Restoration of Wildcarded-IMPU AVP	9.7.0	9.8.0
2011-09 2011-12 2012-03	CT#53  CT#54  CT#55	CP-110349 CP-110347 CP-110359 CP-110554 CP-110555 CP-110555 CP-110559 CP-110775	0219 0230 0225 0248 0243 0238 0251 0235 0260 0263 0269 0279	1	Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061 AVP code alignment with 29.214 AVP code alignment with 32.299 Failure code alignment with 29.212 AVP code alignment with 29.212 New AVP codes for MBMS IP unicast encapsulation New AVP codes for MBMS IP multicast encapsulation MME-Realm AVP code allocation and update Restoration of Wildcarded-IMPU AVP Codes Allocation for AVPs on Initial Attach	9.7.0	9.8.0
2011-09 2011-12 2012-03 2012-06	CT#53	CP-110349 CP-110347 CP-110359 CP-110552 CP-110555 CP-110555 CP-110559 CP-110775	0219 0230 0225 0248 0243 0238 0251 0235 0260 0263 0269 0279	1	Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061 AVP code alignment with 29.214 AVP code alignment with 32.299 Failure code alignment with 29.212 AVP code alignment with 29.212 New AVP codes for MBMS IP unicast encapsulation New AVP codes for MBMS IP multicast encapsulation MME-Realm AVP code allocation and update Restoration of Wildcarded-IMPU AVP Codes Allocation for AVPs on Initial Attach Duplicated AVP names	9.7.0 9.8.0 9.9.0 9.10.0	9.8.0 9.9.0 9.10.0 9.11.0
2011-09 2011-12 2012-03 2012-06 2012-07	CT#53  CT#54  CT#55  CT#56	CP-110349 CP-110347 CP-110359 CP-110554 CP-110555 CP-110555 CP-110559 CP-110775 CP-120025 CP-1200219	0219 0230 0225 0248 0243 0251 0235 0260 0263 0269 0279 0291 0302	1 1 1	Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061 AVP code alignment with 29.214 AVP code alignment with 32.299 Failure code alignment with 29.212 AVP code alignment with 29.212 New AVP codes for MBMS IP unicast encapsulation New AVP codes for MBMS IP multicast encapsulation MME-Realm AVP code allocation and update Restoration of Wildcarded-IMPU AVP Codes Allocation for AVPs on Initial Attach Duplicated AVP names Editorial correction to history table	9.7.0 9.8.0 9.9.0 9.10.0 9.11.0	9.8.0 9.9.0 9.10.0 9.11.0 9.11.1
2011-09 2011-12 2012-03 2012-06 2012-07 2012-09	CT#53  CT#54  CT#55  CT#56  CT#57	CP-110349 CP-110347 CP-110359 CP-110552 CP-110555 CP-110555 CP-110559 CP-110775 CP-120025 CP-120219	0219 0230 0225 0248 0243 0238 0251 0235 0260 0263 0269 0279 0291 0302	1 1 1 1	Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061 AVP code alignment with 29.214 AVP code alignment with 32.299 Failure code alignment with 29.212 AVP code alignment with 29.212 New AVP codes for MBMS IP unicast encapsulation New AVP codes for MBMS IP multicast encapsulation MME-Realm AVP code allocation and update Restoration of Wildcarded-IMPU AVP Codes Allocation for AVPs on Initial Attach Duplicated AVP names Editorial correction to history table GMLC-Name	9.7.0 9.8.0 9.9.0 9.10.0 9.11.0 9.11.1	9.8.0 9.9.0 9.10.0 9.11.0 9.11.1 9.12.0
2011-09 2011-12 2012-03 2012-06 2012-07	CT#53  CT#54  CT#55  CT#56	CP-110349 CP-110347 CP-110359 CP-110554 CP-110555 CP-110555 CP-110559 CP-110775 CP-120025 CP-1200219	0219 0230 0225 0248 0243 0238 0251 0235 0260 0263 0269 0279 0291 0302	1 1 1 1 1 1	Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061 AVP code alignment with 29.214 AVP code alignment with 32.299 Failure code alignment with 29.212 AVP code alignment with 29.212 New AVP codes for MBMS IP unicast encapsulation New AVP codes for MBMS IP multicast encapsulation MME-Realm AVP code allocation and update Restoration of Wildcarded-IMPU AVP Codes Allocation for AVPs on Initial Attach Duplicated AVP names Editorial correction to history table	9.7.0 9.8.0 9.9.0 9.10.0 9.11.1 9.12.0	9.8.0 9.9.0 9.10.0 9.11.0 9.11.1

2013-12	CT#62	CP-130600	0373	-	Allocation of Diameter codes for 32.299	9.14.0	9.15.0
2014-06	CT#64	CP-140231	0387		Adding Codes for 29.214	9.15.0	9.16.0
		CP-140257	0394		SS-Status AVP Definition		
2014-12	CT#66	CP-140756	0413	1	code definitions for 32.299	9.16.0	9.17.0

### History

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