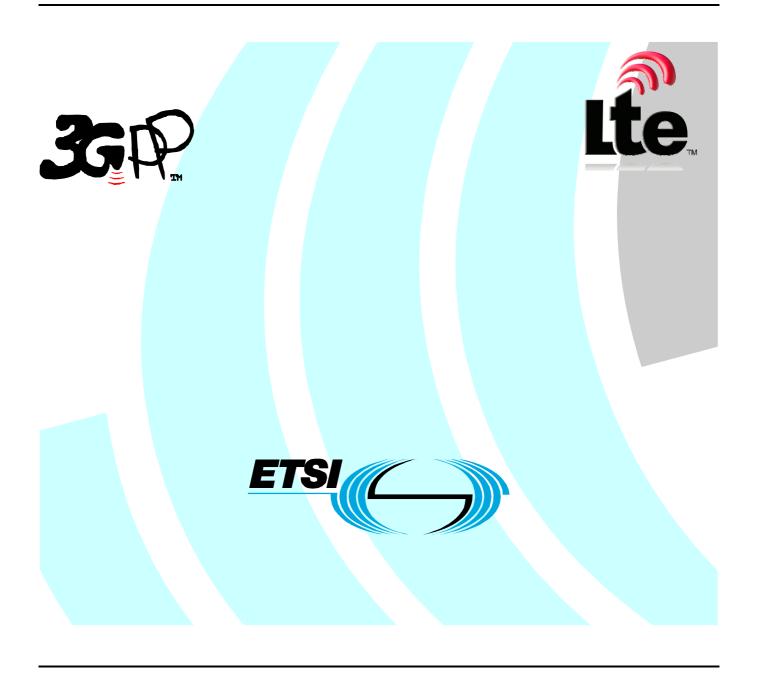
# ETSI TS 129 230 V9.2.0 (2010-04)

Technical Specification

Digital cellular telecommunications system (Phase 2+);
Universal Mobile Telecommunications System (UMTS);
LTE;
Diameter applications;
3GPP specific codes and identifiers
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#### **Foreword**

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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

# 1 Scope

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

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

#### 2 References

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

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

Diameter protocol".

• 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.* 

receive es n	ic present deciment.
[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="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

[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]

#### 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	141 000 00
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
XXX	Provide-Location-Request/Answer	PLR/PLA	20 472 [24]
XXX	Location-Report-Request/Answer	LRR/LRA	29.172 [24]
XXX	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	29.234 [6]
Note:	The AVP codes from 1 to 255 are reserved for backwards compati	bility with 3GPP RADIUS	Vendor Specific
	utes (See TS 29.061 [13])		
	The AVP codes from 256 to 299 are reserved for future use.		
	Authentication-Method	Enumerated	_
	Authentication-Information-SIM	OctetString	_
	Authorization -Information-SIM	OctetString	_
	WLAN-User-Data	Grouped	
	Charging-Data	Grouped	_
	WLAN-Access	Enumerated	4
	WLAN- 3GPP-IP-Access	Enumerated	_
	APN-Authorized	Grouped	_
	APN-Id		_
	APN-Barring-Type	Enumerated	29.234 [6]
	WLAN-Direct-IP-Access	Enumerated	_
	Session-Request-Type	Enumerated	<u> </u>
	Routing-Policy	IPFilterRule	<u> </u>
	Max-Requested-Bandwidth	OctetString	_
	Charging-Characteristics	Integer	_
	Charging-Nodes	Grouped	
	Primary-OCS-Charging-Function-Name	DiameterIdentity	
317	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 29.23		1
	GBA-UserSecSettings	OctetString	4
	Transaction-Identifier NAF-Hostname	OctetString OctetString	_
	GAA-Service-Identifier	OctetString	-
	Key-ExpiryTime	Time	-
	ME-Key-Material	OctetString	
406	UICC-Key-Material	OctetString	]
	GBA_U-Awareness-Indicator	Enumerated	
	BootstrapInfoCreationTime	Time	4
	GUSS-Timestamp GBA-Type	Time Enumerated	29.109 [7]
410	UE-Id	OctetString	29.109[7]
	UE-Id-Type	Enumerated	-
413	UICC-App-Label	OctetString	1
414	UICC-ME	Enumerated	]
	Requested-Key-Lifetime	Time	
	Private-Identity-Request	Enumerated	
	GBA-Push-Info NAF-SA-Identifier	OctetString OctetString	=
110	Security-Feature-Request	OctetString	-{
420	Security-Feature-Response	OctetString	-
	The AVP codes from 421 to 499 are reserved for TS 29.109		_L
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	†
	Access-Network-Charging-Identifier	Grouped	1
	Access-Network-Charging-Identifier-Value	OctetString	1
	AF-Application-Identifier	OctetString	29.209 [8],
	AF-Charging-Identifier	OctetString	29.211 [17]
	Authorization-Token	OctetString	
	Flow-Description	IPFilterRule	1
	Flow-Grouping	Grouped	1
	Flow-Number	Unsigned32	†
505	i ion i tamboi	Onloight Cub2	

1510   Flow-Status				
S12   Flow-Usage				
513   Specific-Action   Enumerated				
S14   Max-Requested-Bandwidth			Enumerated	
S15   Max-Requested-Bandwidth-UL   Unsigned32				
1516   Max-Requested-Bandwidth-UL		·		
SIP-Number-Auth-lems   Unsigned32				
1918   Media-Sub-Component-Number	516	Max-Requested-Bandwidth-UL		
State   Stat	517	Media-Component-Description		
Second   S	518	Media-Component-Number	Unsigned32	
SZ2   RR-Bandwidth	519	Media-Sub-Component AVP	Grouped	
S22   SR-Bandwidth	520	Media-Type	Enumerated	
SEP-Forking-Indication   Enumerated	521	RR-Bandwidth	Unsigned32	
Note: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211  600   Visited-Network-Identifier   OctefString   601   Public-Identity   UTF8String   602   Server-Name   UTF8String   603   Server-Capabilities   Grouped   604   Mandatory-Capability   Unsigned32   605   Optional-Capability   Unsigned32   606   User-Data   OctefString   607   SIP-Number-Auth-Items   U1F8String   608   SIP-Authentication-Scheme   U1F8String   609   SIP-Authentication-Scheme   U1F8String   609   SIP-Authentication-Context   OctefString   610   SIP-Authentication-Context   OctefString   611   SIP-Authorization   OctefString   612   SIP-Authorization   OctefString   613   SIP-Item-Number   Unsigned32   614   Server-Assignment-Type   Enumerated   615   Deregistration-Reason   Grouped   616   Reason-Code   Enumerated   617   Reason-Info   U1F8String   618   Charging-Information   Grouped   619   Primary-Event-Charging-Function-Name   DiameterURI   619   Primary-Event-Charging-Function-Name   DiameterURI   620   Secondary-Charging-Collection-Function-Name   DiameterURI   621   Primary-Charging-Collection-Function-Name   DiameterURI   622   Secondary-Charging-Collection-Function-Name   DiameterURI   623   User-Data-Already-Available   Enumerated   624   Confediciality-Key   OctefString   625   Confidentiality-Key   OctefString   626   Confidentiality-Key   OctefString   627   User-Data-Request-Type   Enumerated   628   Supported-Peatures   Grouped   630   Feature-List-ID   Unsigned32   631   Supported-Peatures   Grouped   632   Associated-Identities   Grouped   633   Originating-Request   Enumerated   634   Wildcarded-Public-Identity   U1F8String   635   Contentiality-Key   OctefString   636   Feature-List-ID   OctefString   637   UAR-Flags   Unsigned32   638   Loose-Route-Indication   Enumerated   639   Grouped   OctefString   641   Contact   OctefString   642   Callester   OctefString   643   Call-ID-SIP-Header   OctefString   644   Contact   OctefString   645   OctefString   OctefString   OctefString   646   Record-Route	522	RS-Bandwidth	Unsigned32	
Note: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211  600   Visited-Network-Identifier   OctefString   601   Public-Identity   UTF8String   602   Server-Name   UTF8String   603   Server-Capabilities   Grouped   604   Mandatory-Capability   Unsigned32   605   Optional-Capability   Unsigned32   606   User-Data   OctefString   607   SIP-Number-Auth-Items   U1F8String   608   SIP-Authentication-Scheme   U1F8String   609   SIP-Authentication-Scheme   U1F8String   609   SIP-Authentication-Context   OctefString   610   SIP-Authentication-Context   OctefString   611   SIP-Authorization   OctefString   612   SIP-Authorization   OctefString   613   SIP-Item-Number   Unsigned32   614   Server-Assignment-Type   Enumerated   615   Deregistration-Reason   Grouped   616   Reason-Code   Enumerated   617   Reason-Info   U1F8String   618   Charging-Information   Grouped   619   Primary-Event-Charging-Function-Name   DiameterURI   619   Primary-Event-Charging-Function-Name   DiameterURI   620   Secondary-Charging-Collection-Function-Name   DiameterURI   621   Primary-Charging-Collection-Function-Name   DiameterURI   622   Secondary-Charging-Collection-Function-Name   DiameterURI   623   User-Data-Already-Available   Enumerated   624   Confediciality-Key   OctefString   625   Confidentiality-Key   OctefString   626   Confidentiality-Key   OctefString   627   User-Data-Request-Type   Enumerated   628   Supported-Peatures   Grouped   630   Feature-List-ID   Unsigned32   631   Supported-Peatures   Grouped   632   Associated-Identities   Grouped   633   Originating-Request   Enumerated   634   Wildcarded-Public-Identity   U1F8String   635   Contentiality-Key   OctefString   636   Feature-List-ID   OctefString   637   UAR-Flags   Unsigned32   638   Loose-Route-Indication   Enumerated   639   Grouped   OctefString   641   Contact   OctefString   642   Callester   OctefString   643   Call-ID-SIP-Header   OctefString   644   Contact   OctefString   645   OctefString   OctefString   OctefString   646   Record-Route	523	SIP-Forking-Indication	Enumerated	
Bot   Public-Identity   UTF8String   Bot   Server-Name   UTF8String   Bot   Server-Capabilities   Grouped   Groupe	Note:	The AVP codes from 524 to 599 are reserved for TS 29.209 and TS	29.211	
Bot   Public-Identity   UTF8String   Bot   Server-Name   UTF8String   Bot   Server-Capabilities   Grouped   Groupe	600	Visited-Network-Identifier	OctetString	
Server-Name	601	Public-Identity		
Grouped				
Botal Mandatory-Capability			- U	
Bots   Optional-Capability   Unsigned32				
SIP-Number-Auth-Items				
608 SIP-Authentication-Scheme         UTF8String           609 SIP-Authenticate         OctetString           610 SIP-Authentication         OctetString           611 SIP-Authentication-Context         OctetString           612 SIP-Auth-Data-Item         Grouped           613 SIP-Item-Number         Unsigned32           614 Server-Assignment-Type         Enumerated           615 Deregistration-Reason         Grouped           616 Reason-Code         Enumerated           617 Reason-Info         UTF8String           618 Charging-Information         Grouped           619 Primary-Event-Charging-Function-Name         DiameterURI           620 Secondary-Event-Charging-Function-Name         DiameterURI           621 Primary-Charging-Collection-Function-Name         DiameterURI           622 Secondary-Charging-Collection-Function-Name         DiameterURI           623 User-Data-Already-Available         Enumerated           624 User-Data-Request-Type         Enumerated           625 Confidentiality-Key         OctetString           627 Valer-List-ID         Unsigned32           628 Supported-Applications         Grouped           630 Feature-List         Unsigned32           631 Supported-Applications         Grouped           632 Footer-Pai				
SIP-Authenticate				
SIP-Authorization				
SIP-Authentication-Context				
SIP-Auth-Data-Item				
613       SIP-Item-Number       Unsigned32         614       Server-Assignment-Type       Enumerated         615       Deregistration-Reason       Grouped         616       Reason-Code       Enumerated         617       Reason-Info       UTF8String         618       Charging-Information       Grouped         619       Primary-Event-Charging-Function-Name       DiameterURI         620       Secondary-Event-Charging-Function-Name       DiameterURI         621       Primary-Charging-Collection-Function-Name       DiameterURI         622       Integrity-Charging-Collection-Function-Name       DiameterURI         623       User-Authorization-Type       Enumerated         624       User-Data-Already-Available       Enumerated         625       Confidentiality-Key       OctetString         626       Integrity-Key       OctetString         627       User-Data-Request-Type       Enumerated         638       Supported-Applications       Grouped         639       Feature-List-ID       Unsigned32         631       Grouped       Grouped         632       Associated-Identities       Grouped         633       Originating-Request       Enumerated <td></td> <td></td> <td></td> <td></td>				
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Bote   Deregistration-Reason   Grouped   Beason-Code   Enumerated   Beason-Code   Enumerated   Enumerated   Beason-Info   UTF8String   Beason-Info   UTF8String   Grouped   Grouped   Grouped   Grouped   Grouped   Grouped   Diameter/URI   Beason-Info   Diameter/URI   Diameter				
616 Reason-Code Enumerated 617 Reason-Info UTF8String 618 Charging-Information Grouped 619 Primary-Event-Charging-Function-Name DiameterURI 620 Secondary-Event-Charging-Function-Name DiameterURI 621 Primary-Charging-Collection-Function-Name DiameterURI 622 Secondary-Charging-Collection-Function-Name DiameterURI 623 Suser-Authorization-Type Enumerated 624 User-Data-Already-Available Enumerated 625 Confidentiality-Key OctetString 626 Integrity-Key OctetString 627 User-Data-Request-Type Enumerated 628 Supported-Features Grouped 629 Feature-List-ID Unsigned32 630 Feature-List Unsigned32 631 Supported-Applications Grouped 632 Associated-Identities Grouped 633 Originating-Request Enumerated 634 Wildcarded-Public-Identity UTF8String 635 SIP-Digest-Authenticate Grouped 636 UAR-Flags Unsigned32 637 UAR-Flags Unsigned32 638 Loose-Route-Indication Enumerated 639 SCSC-Restoration-Info Grouped 640 Path OctetString 641 Contact OctetString 642 Subscription-Info Grouped 643 From-SIP-Header OctetString 644 From-SIP-Header OctetString 645 To-SIP-Header OctetString 646 Record-Route 647 Associated-Registered-Identities Grouped 648 Multiple-Registration-Indication Enumerated				
617 Reason-Info 618 Charging-Information 619 Primary-Event-Charging-Function-Name 620 Secondary-Event-Charging-Function-Name 621 Primary-Charging-Collection-Function-Name 622 Secondary-Charging-Collection-Function-Name 623 User-Authorization-Type 624 User-Data-Already-Available 625 Confidentiality-Key 626 Integrity-Key 627 User-Data-Request-Type 628 Supported-Features 629 Supported-Features 629 Secondary-Event-Charging-Collection-Function-Name 620 Integrity-Key 621 User-Data-Already-Available 622 Integrity-Key 623 User-Data-Already-Available 624 User-Data-Already-Available 625 Confidentiality-Key 626 Integrity-Key 627 User-Data-Request-Type 628 Supported-Features 629 Feature-List 629 Feature-List Unsigned32 630 Feature-List 630 Feature-List 631 Supported-Applications 632 Originating-Request 633 Originating-Request 634 Wildcarded-Public-Identity 635 SIP-Digest-Authenticate 636 Unsigned32 637 UAR-Flags 638 Loose-Route-Indication 639 SCSCF-Restoration-Info 640 Path 640 Path 641 Contact 642 Subscription-Info 643 Calli-ID-SIP-Header 644 From-SIP-Header 645 To-SIP-Header 647 Associated-Registered-Identities 648 Multiple-Registration-Indication 649 Runterated 640 Runterated 640 Runterated 641 Councer 643 Calli-ID-SIP-Header 644 From-SIP-Header 644 Route-Registration-Indication 645 Inumerated 646 Record-Route 647 Associated-Registered-Identities 647 Associated-Registration-Indication 648 Inumerated				
618 Charging-Information 619 Primary-Event-Charging-Function-Name 620 Secondary-Event-Charging-Function-Name 621 Primary-Charging-Collection-Function-Name 622 Secondary-Charging-Collection-Function-Name 623 Secondary-Charging-Collection-Function-Name 624 User-Authorization-Type 625 Confidentiality-Key 626 Confidentiality-Key 627 User-Data-Already-Available 627 User-Data-Request-Type 628 Supported-Features 629 Grouped 629 Feature-List-ID 620 Secondary-Eventy 621 User-Data-Request-Type 628 Supported-Features 629 Feature-List-ID 629 Feature-List-ID 630 Feature-List-ID 631 Unsigned32 632 Associated-Identities 633 Vagnating-Request 634 Wildcarded-Public-Identity 635 SIP-Digest-Authenticate 636 Grouped 637 UAR-Flags 637 UAR-Flags 638 Loose-Route-Indication 639 SCSCF-Restoration-Info 640 Path 641 Contact 642 Subscription-Info 643 CotelString 644 From-SIP-Header 645 To-SIP-Header 647 Associated-Registered-Identities 648 Multiple-Registration-Indication 649 CotelString 646 Record-Route 640 Rultiple-Registration-Indication 641 Conumerated 643 Multiple-Registration-Indication 644 Rultiple-Registration-Indication 645 Grouped 648 Multiple-Registration-Indication 646 Record-Route 647 Associated-Registered-Identities 647 Associated-Registered-Identities 648 Grouped 648 Multiple-Registration-Indication 649 Enumerated 640 Record-Route 640 Record-Route 641 Roumerated				
Frimary-Event-Charging-Function-Name   DiameterURI				
Secondary-Event-Charging-Function-Name   DiameterURI     Primary-Charging-Collection-Function-Name   DiameterURI     Collection-Function-Name   Diameter				
621 Primary-Charging-Collection-Function-Name       DiameterURI         622 Secondary-Charging-Collection-Function-Name       DiameterURI         623 User-Authorization-Type       Enumerated         624 User-Data-Already-Available       Enumerated         625 Confidentiality-Key       OctetString         626 Integrity-Key       OctetString         627 User-Data-Request-Type       Enumerated         628 Supported-Features       Grouped         629 Feature-List-ID       Unsigned32         630 Feature-List       Unsigned32         631 Supported-Applications       Grouped         632 Associated-Identities       Grouped         633 Originating-Request       Enumerated         634 Wildcarded-Public-Identity       UTF8String         635 SIP-Digest-Authenticate       Grouped         636 reserved       Grouped         637 UAR-Flags       Unsigned32         638 Loose-Route-Indication       Enumerated         639 SCSCF-Restoration-Info       Grouped         640 Path       OctetString         641 Contact       OctetString         642 Subscription-Info       Grouped         643 Call-ID-SIP-Header       OctetString         644 From-SIP-Header       OctetString         64				
622       Secondary-Charging-Collection-Function-Name       DiameterURI         623       User-Authorization-Type       Enumerated         624       User-Data-Already-Available       Enumerated         625       Confidentiality-Key       OctetString         626       Integrity-Key       OctetString         627       User-Data-Request-Type       Enumerated         628       Supported-Features       Grouped         629       Feature-List-ID       Unsigned32         630       Feature-List       Unsigned32         631       Supported-Applications       Grouped         632       Associated-Identities       Grouped         633       Originating-Request       Enumerated         634       Wildcarded-Public-Identity       UTF8String         635       SIP-Digest-Authenticate       Grouped         636       reserved       Grouped         637       UAR-Flags       Unsigned32         638       Loose-Route-Indication       Enumerated         639       SCSCF-Restoration-Info       Grouped         640       Path       OctetString         641       Contact       OctetString         642       Subscription-Info       G				
G23   User-Authorization-Type   Enumerated				
G24   User-Data-Already-Available   Enumerated   G25   Confidentiality-Key   OctetString   G26   Integrity-Key   OctetString   G27   User-Data-Request-Type   Enumerated   G28   Supported-Features   Grouped   G29   Feature-List-ID   Unsigned32   G30   Feature-List   Unsigned32   G31   Supported-Applications   Grouped   G32   Associated-Identities   Grouped   G33   Originating-Request   Enumerated   G34   Wildcarded-Public-Identity   UTF8String   G35   SIP-Digest-Authenticate   Grouped   G36   reserved   G37   UAR-Flags   Unsigned32   G38   Loose-Route-Indication   Enumerated   G39   SCSCF-Restoration-Info   Grouped   G40   Path   OctetString   G41   Contact   OctetString   G42   Subscription-Info   Grouped   G43   Call-ID-SIP-Header   OctetString   G44   From-SIP-Header   OctetString   OctetString   G46   Record-Route   OctetString   G47   Associated-Registered-Identities   Grouped   G48   Multiple-Registration-Indication   Enumerated   G49   Multiple-Registration-Indication   Enumerated   G49   Multiple-Registration-Indication   Enumerated   G49   Multiple-Registration-Indication   Enumerated   G49   Multiple-Registration-Indication   Enumerated   G40   Multiple-Registration-Indication   Enumerated   G40   Multiple-Registration-Indication   Enumerated   G41   G41   G42   G44   G44   G45   G46   G4				
Confidentiality-Key				
626 Integrity-Key       OctetString         627 User-Data-Request-Type       Enumerated         628 Supported-Features       Grouped         629 Feature-List       Unsigned32         630 Feature-List       Unsigned32         631 Supported-Applications       Grouped         632 Associated-Identities       Grouped         633 Originating-Request       Enumerated         634 Wildcarded-Public-Identity       UTF8String         635 SIP-Digest-Authenticate       Grouped         636 reserved       Grouped         637 UAR-Flags       Unsigned32         638 Loose-Route-Indication       Enumerated         639 SCSCF-Restoration-Info       Grouped         640 Path       OctetString         641 Contact       OctetString         642 Subscription-Info       Grouped         643 Call-ID-SIP-Header       OctetString         644 From-SIP-Header       OctetString         645 To-SIP-Header       OctetString         646 Record-Route       OctetString         647 Associated-Registered-Identities       Grouped         648 Multiple-Registration-Indication       Enumerated				29.229 [2]]
627User-Data-Request-TypeEnumerated628Supported-FeaturesGrouped629Feature-List-IDUnsigned32630Feature-ListUnsigned32631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636reservedGrouped637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString641ContactOctetString642Subscription-InfoGrouped643Call-ID-SIP-HeaderOctetString644From-SIP-HeaderOctetString645To-SIP-HeaderOctetString646Record-RouteOctetString647Associated-Registered-IdentitiesGrouped648Multiple-Registration-IndicationEnumerated				
628         Supported-Features         Grouped           629         Feature-List-ID         Unsigned32           630         Feature-List         Unsigned32           631         Supported-Applications         Grouped           632         Associated-Identities         Grouped           633         Originating-Request         Enumerated           634         Wildcarded-Public-Identity         UTF8String           635         SIP-Digest-Authenticate         Grouped           636         reserved         Grouped           637         UAR-Flags         Unsigned32           638         Loose-Route-Indication         Enumerated           639         SCSCF-Restoration-Info         Grouped           640         Path         OctetString           641         Contact         OctetString           642         Subscription-Info         Grouped           643         Call-ID-SIP-Header         OctetString           644         From-SIP-Header         OctetString           645         To-SIP-Header         OctetString           646         Record-Route         OctetString           647         Associated-Registered-Identities         Grouped <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
629Feature-List-IDUnsigned32630Feature-ListUnsigned32631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636reservedTouped637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString641ContactOctetString642Subscription-InfoGrouped643Call-ID-SIP-HeaderOctetString644From-SIP-HeaderOctetString645To-SIP-HeaderOctetString646Record-RouteOctetString647Associated-Registered-IdentitiesGrouped648Multiple-Registration-IndicationEnumerated				
630Feature-ListUnsigned32631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636reservedUnsigned32637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString641ContactOctetString642Subscription-InfoGrouped643Call-ID-SIP-HeaderOctetString644From-SIP-HeaderOctetString645To-SIP-HeaderOctetString646Record-RouteOctetString647Associated-Registered-IdentitiesGrouped648Multiple-Registration-IndicationEnumerated				
631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636reservedUnsigned32637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString641ContactOctetString642Subscription-InfoGrouped643Call-ID-SIP-HeaderOctetString644From-SIP-HeaderOctetString645To-SIP-HeaderOctetString646Record-RouteOctetString647Associated-Registered-IdentitiesGrouped648Multiple-Registration-IndicationEnumerated				
632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636reservedUnsigned32637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString641ContactOctetString642Subscription-InfoGrouped643Call-ID-SIP-HeaderOctetString644From-SIP-HeaderOctetString645To-SIP-HeaderOctetString646Record-RouteOctetString647Associated-Registered-IdentitiesGrouped648Multiple-Registration-IndicationEnumerated				
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634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636reserved637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString641ContactOctetString642Subscription-InfoGrouped643Call-ID-SIP-HeaderOctetString644From-SIP-HeaderOctetString645To-SIP-HeaderOctetString646Record-RouteOctetString647Associated-Registered-IdentitiesGrouped648Multiple-Registration-IndicationEnumerated				
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636reserved637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString641ContactOctetString642Subscription-InfoGrouped643Call-ID-SIP-HeaderOctetString644From-SIP-HeaderOctetString645To-SIP-HeaderOctetString646Record-RouteOctetString647Associated-Registered-IdentitiesGrouped648Multiple-Registration-IndicationEnumerated				
637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString641ContactOctetString642Subscription-InfoGrouped643Call-ID-SIP-HeaderOctetString644From-SIP-HeaderOctetString645To-SIP-HeaderOctetString646Record-RouteOctetString647Associated-Registered-IdentitiesGrouped648Multiple-Registration-IndicationEnumerated			Grouped	
638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString641ContactOctetString642Subscription-InfoGrouped643Call-ID-SIP-HeaderOctetString644From-SIP-HeaderOctetString645To-SIP-HeaderOctetString646Record-RouteOctetString647Associated-Registered-IdentitiesGrouped648Multiple-Registration-IndicationEnumerated				
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640PathOctetString641ContactOctetString642Subscription-InfoGrouped643Call-ID-SIP-HeaderOctetString644From-SIP-HeaderOctetString645To-SIP-HeaderOctetString646Record-RouteOctetString647Associated-Registered-IdentitiesGrouped648Multiple-Registration-IndicationEnumerated				
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648 Multiple-Registration-Indication Enumerated			OctetString	
648 Multiple-Registration-Indication Enumerated	647	Associated-Registered-Identities	Grouped	
			Enumerated	
			Grouped	

050	Coories Driegity		
	Session-Priority The AVP codes from 651 to 699 are reserved for TS 29.229.	Enumerated	
		Crouped	
	User-Identity MSISDN	Grouped	
	User-Data	OctetString	
		OctetString	
	Data-Reference	Enumerated Octot String	
	Service-Indication	OctetString	
	Subs-Req-Type	Enumerated	29.329 [4]
	Requested-Domain	Enumerated	
	Current-Location	Enumerated	
	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	
	One-Time-Notification	Enumerated	
	The AVP codes from 713 to 799 are reserved for TS 29.329.		
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
823	Event-Type	Grouped	
824	SIP-Method	UTF8String	
825	Event	UTF8String	
826	Content-Type	UTF8String	
827	Content-Length	Unsigned32	
828	Content-Disposition	UTF8String	
829	Role-of-Node	Enumerated	
830	User-Session-Id	UTF8String	
831	Calling-Party-Address	UTF8String	
832	Called-Party-Address	UTF8String	
833	Time-Stamps	Grouped	
834	SIP-Request-Timestamp	Time	
835	SIP-Response-Timestamp	Time	
836	Application-Server	UTF8String	
837	Application-provided-called-party-address	UTF8String	
838	Inter-Operator-Identifier	Grouped	
839	Originating-IOI	UTF8String	
840	Terminating-IOI	UTF8String	
841	IMS-Charging-Identifier	UTF8String	
842	SDP-Session-Description	UTF8String	
843	SDP-Media-Component	Grouped	
844	SDP-Media-Name	UTF8String	
845	SDP-Media-Description	UTF8String	
846	CG-Address	Address	
847	GGSN-Address	Address	32.299 [5]
848	Served-Party-IP-Address	Address	
849	Authorized-QoS	UTF8String	
850	Application-Server-Information	Grouped	
851	Trunk-Group-Id	Grouped	
852	Incoming-Trunk-Group-Id	UTF8String	
853	Outgoing-Trunk-Group-Id	UTF8String	
854	Bearer-Service	OctetString	
855	Service-Id	UTF8String	
856	Associated-URI	UTF8String	
857	Charged-Party	UTF8String	
858	PoC-Controlling-Address	UTF8String	
859	PoC-Group-Name	UTF8String	
860	Cause	Grouped	
861	Cause-Code	Integer32	
862	Node-Functionality	Enumerated	
863	Service-Specific-Data	UTF8String	
864	Originator	Enumerated	
865	PS-Furnish-Charging-Information	Grouped	
866	PS-Free-Format-Data	OctetString	
867	PS-Append-Free-Format-Data	Enumerated	
		1 11 ' 100	
868	Time-Quota-Threshold	Unsigned32	
868 869 870	Time-Quota-Threshold  Volume-Quota-Threshold  Trigger-Type	Unsigned32 Unsigned32 Enumerated	

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871	Quota-Holding-Time	Unsigned32	
872	Reporting-Reason	Enumerated	
873	Service-Information	Grouped	
874	PS-Information	Grouped	
875	WLAN-Information	Grouped	
876	IMS-Information	Grouped	
877	MMS-Information	Grouped	
878	LCS-Information	Grouped	
879	PoC-Information	Grouped	
880	MBMS-Information	Grouped	İ
881	Quota-Consumption-Time	Unsigned32	
882	Media-Initiator-Flag	Enumerated	
883	PoC-Server-Role	Enumerated	
884	PoC-Session-Type	Enumerated	
885	Number-Of-Participants	Unsigned32	
886	Originator-Address	Grouped	
887	Participants-Involved	UTF8String	
888	Expires	Unsigned32	
889	Message-Body	Grouped	
890	WAG-Address	Address	ļ
891	WAG-PLMN-Id	OctetString	
892	WLAN-Radio-Container	Grouped	
893	WLAN-Technology	Unsigned32	
894	WLAN-UE-Local-IPAddress	Address	
895	PDG-Address	Address	
896	PDG-Charging-Id	Unsigned32	
897	Address-Data	UTF8String	
898	Address-Domain	Grouped	
899	Address-Type	Enumerated	
000	Address Type	Litameratea	
000	TMGI	OctectString	
		UTF8String	-
901	Required-MBMS-Bearer-Capabilities		
	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	20 064 [42]
910	Additional-MBMS-Trace-Info	OctetString	29.061 [13]
911	MBMS-Time-To-Data-Transfer	Unsigned32	
912	MBMS-Session-Identity-Repetition-Number	Unsigned32	
	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-IP-Address	UTF8String	}
	The AVP codes from 920 to 999 are reserved for TS 29.061	l Otrosuling	<u> </u>
			<u> </u>
	Bearer-Usage	Enumerated	{
	Charging-Rule-Install	Grouped	}
	Charging-Rule-Remove	Grouped	
	Charging-Rule-Definition	Grouped	-
	Charging-Rule-Base-Name	UTF8String	ļ
	Charging-Rule-Name	OctetString	
	Event-Trigger	Enumerated	29.212 [19]
	Metering-Method	Enumerated	-U.CIC[13]
	Offline	Enumerated	
	Online	Enumerated	
	Precedence	Unsigned32	
	Reporting-Level	Enumerated	]
	TFT-Filter	IPFilterRule	j
	TFT-Packet-Filter-Information	Grouped	1
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1015   DoS-Halm-Classs	1014 ToS-Traffic-Class	OctotString	
1018   CArc New-Status		OctetString Grouped	
1019   PCG-Rule-Status			
1020   Baaren-Identifier			
1022   Dearser-Network-Charging-Identifier-Gx   Grouped   1023   Bearer-Control-Mode   Enumerated   1024   Network-Request-Support   Enumerated   1025   Guaranteed-Bitrate-DL   Unsigned32   1026   Guaranteed-Bitrate-DL   Unsigned32   1027   PL-CAN-Type   Enumerated   1028   Oss-Cass-Identifier   Enumerated   1029   Oss-Negotiation   Enumerated   1030   Oss-Negotiation   Enumerated   1031   Rule-Failure-Code   Enumerated   1032   Rat-Type   Enumerated   1032   Rat-Type   Enumerated   1032   Grouped   Enumerated   1032   Rat-Type   Enumerated   1032   Grouped   Grouped   1033   Can-In-Hadders-Filter   Ip-Filter-Rule   1034   Allocation-Retention-Priority   Grouped   1035   Can-In-Hadders-Filter   Ip-Filter-Rule   1036   Tunnel-Hadder-Length   Unsigned32   1040   ARN-Aggregate-Max-Bitrate-DL   Unsigned32   1041   Rat-Aggregate-Max-Bitrate-DL   Unsigned32   1042   Revalidation-Time   Time   1044   Rule-Address   Address   1044   Rule-Address   Address   1045   Session-Release-Cause   Enumerated   1046   Prompto-Capability   Enumerated   1047   Pre-emption-Capability   Enumerated   1048   Pre-emption-Capability   Enumerated   1052   Oss-Rule-Install   Grouped   1053   Oss-Rule-Install   Grouped   1054   Oss-Rule-Reprove   Grouped   1055   Oss-Rule-Reprove   Grouped   1056   Oss-Rule-Reprove   Grouped   1057   Flow-Lindermation   Grouped   1058   Packet-Filter-Operation   Grouped   1059   Packet-Filter-Operation   Grouped   1050   Packet-Filter-Operation   Grouped   1051   Oss-Rule-Reprove   Grouped   1052   Oss-Rule-Reprove   Grouped   1053   Oss-Rule-Reprove   Grouped   Grouped   1054   Packet-Filter-Operation   Grouped   1055   Gos-Rule-Reprove   Grouped   Grouped   Grouped   Grouped   Grouped   Grouped   Grouped   Grouped			
1022   Access-Network-Charging-Identifier-Gx		3	
1023   Bearer-Control-Mode			
1025   Guaranteed-Bitrate-DL			
1026   Guaranteed-Bitrate-UL			
1027   IP-CAN-Type		<u> </u>	
1028   QoS-Class-Identifier		· · ·	
1030   CoS-Upgrade			
1033   Event-Report-Indication   Grouped     1034   Allocation-Retention-Priority   Grouped     1036   CoA-IP-Address   Address     1036   Tunnel-Header-Filter   IPFilterRule     1037   Tunnel-Header-Filter   IPFilterRule     1037   Tunnel-Header-Filter   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     1043   Rule-Activation-Time   Time     1044   Rule-Dektivation-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-Remove   Grouped     1052   QoS-Rule-Remove   Grouped     1053   QoS-Rule-Definition   Grouped     1054   GoS-Rule-Definition   Grouped     1055   GoS-Rule-Report   Grouped     1056   Soc-Information   Grouped     1057   Flow-Label   OctetString     1058   Flow-Information   Grouped     1059   Packet-Filter-Content   IPFilterRule     1060   Packet-Filter-Information   Grouped     1051   Packet-Filter-Content   IPFilterRule     1061   Packet-Filter-Information   Grouped     1052   Packet-Filter-Content   IPFilterRule     1063   Resource-Allocation-Notification   Enumerated     1004   Result-Recipient-Address   Groupe     1005   Groupe-Lyer-Identity   Groupe     1006   Packet-Filter-Jententifier   Grouped     1007   Tenumerated   Grouped     1008   Packet-Filter-Jententifier   Grouped     1009   Grouped   Grouped   Grouped     1001   Grouped   Grouped   Grouped     1002   Packet-Filter-Gortent   IPFilterRule     1003   Grouped   Grouped   Grouped     1004   Grouped   Grouped   Grouped   Grouped     1005   Grouped			
1034   Allocation-Retention-Priority   Grouped   1035   CoA-IP-Address   Address   1036   Tunnel-Header-Filter   IPFilterRule   1037   Tunnel-Header-Length   Unsigned32   1038   Tunnel-Information   Grouped   1038   Tunnel-Information   Grouped   1040   APN-Aggregate-Max-Bitrate-DL   Unsigned32   1041   APN-Aggregate-Max-Bitrate-DL   Unsigned32   1042   Revalidation-Time   Time   1043   Rule-Activation-Time   Time   1044   Revalidation-Time   Time   1045   Resion-Release-Cause   Enumerated   1046   Priority-Level   Unsigned32   1047   Pre-emption-Capability   Enumerated   1048   Pre-emption-Quality   Enumerated   1049   Pre-emption-Unierability   Enumerated   1049   Pre-emption-Vulnerability   Enumerated   1049   Pre-emption-Vulnerability   Enumerated   1049   Pre-emption-Vulnerability   Enumerated   1050   AN-GW-Address   Address   Address   1051   QoS-Rule-Install   Grouped   1052   QoS-Rule-Nemove   Grouped   1053   QoS-Rule-Name   OctetString   1056   QoS-Rule-Name   OctetString   1056   GoS-Rule-Report   Grouped   1057   Flow-Label   OctetString   1058   Packet-Filter-Content   IPFilterRule   1059   Packet-Filter-Information   Grouped   1059   Packet-Filter-Information   Grouped   1059   Packet-Filter-Information   Grouped   1061   Packet-Filter-Information   Grouped   1062   Packet-Filter-Information   Grouped   1063   Resource-Allocation-Notification   Enumerated   1063   Resource-Allocation-Notification   Enumerated   1064   Result-Recipient-Address   UTF8Str   1100   Served-User-Identity   Enumer   1101   Served-User-Identity   Enumer   1101   Router-Address   UTF8Str   1102   UAS-ID   UTF8Str   1103   Groupe   Unsigne   Unsigne   1104   Reder-Address   UTF8Str   1105   United-Address   UTF8Str   1106   Result-Recipient-Address   UTF8Str   1107   Groupe-Address   UTF8Str   1108   Recipient-Address   UTF8Str   1109   Routering-Address   UTF8Str   1110   Groupe-Address   UTF8Str   1111   Review-Report   Enumer   1112   Read-Reply   Enumer   1113   Served-West   UTF8Str   UTF8Str   1114   Service-Key			
1035   CoA-IP-Address   Address   IPFilterRule   1037   Tunnel-Header-Filter   IPFilterRule   1037   Tunnel-Header-Length   Unsigned32   1038   Tunnel-Information   Grouped			
1036   Tunnel-Header-Length			
1037   Tunnel-Header-Length		l .	
1038   Tunnel-Information   Grouped			
1039   CoA-Information			
1040   APN-Aggregate-Max-Bitrate-DL			
1041   APN-Aggregate-Max-Bitrate-UL			
1042   Revalidation-Time			
1043   Rule-Activation-Time		<u> </u>	
1044   Rule-DeActivation-Time		l .	
1045   Session-Release-Cause   Enumerated   1046   Priority-Level   Unsigned32   1047   Pre-emption-Capability   Enumerated   1048   Pre-emption-Vulnerability   Enumerated   1048   Pre-emption-Vulnerability   Enumerated   1049   Default-EPS-Bearer-QoS   Grouped   1050   ANI-OW-Address   Address   Address   1051   QoS-Rule-Install   Grouped   1052   QoS-Rule-Install   Grouped   1052   QoS-Rule-Definition   Grouped   1054   QoS-Rule-Definition   Grouped   1054   QoS-Rule-Definition   Grouped   1055   QoS-Rule-Report   Grouped   1056   Security-Parameter-Index   IPFilterRule   1056   Security-Parameter-Index   IPFilterRule   1057   Flow-Label   OctetString   1058   Flow-Information   Grouped   1059   Packet-Filter-Identifier   OctetString   1061   Packet-Filter-Identifier   OctetString   1061   Packet-Filter-Information   Grouped   1062   Packet-Filter-Information   Grouped   1062   Packet-Filter-Operation   Enumerated   1063   Resource-Allocation-Notification   Enumerated   1063   Resource-Allocation-Notification   Enumerated   1078   Resource-Allocation-Notification   Enumerated   1078   10			
1046   Priority-Level		Time	
1047   Pre-emption-Capability		Enumerated	
1048   Pre-emption-Vulnerability	1046 Priority-Level	Unsigned32	
1049   Default-EPS-Bearer-QoS   Grouped   1050   AN-GW-Address   Address   Address   Address   Address   Grouped   1051   QoS-Rule-Install   Grouped   1052   QoS-Rule-Namove   Grouped   1053   QoS-Rule-Definition   Grouped   1054   QoS-Rule-Name   OctetString   1055   QoS-Rule-Name   OctetString   1056   Security-Parameter-Index   IPFilterRule   1056   Security-Parameter-Index   IPFilterRule   1057   Flow-Label   OctetString   1058   Flow-Information   Grouped   1059   Packet-Filter-Identifier   OctetString   1061   Packet-Filter-Information   Grouped   1062   Packet-Filter-Operation   Grouped   1063   Resource-Allocation-Notification   Enumerated   1063   Resource-Allocation-Notification   Enumerated   1063   Resource-Allocation-Notification   Enumerated   1010   Served-User-Identity   Groupe   1101   VASP-ID   UTF8Str   1102   VAS-ID   UTF8Str   1102   VAS-ID   UTF8Str   1103   Trigger-Event   Enumer   1104   Sender-Address   Groupe   1106   Result-Recipient-Address   Groupe   1107   Sequence-Number   Unsigne   1108   Recipient-Address   UTF8Str   1109   Routeing-Address   UTF8Str   1109   Routeing-Address   UTF8Str   1109   UTF8Str   1109   Divery-Report   Enumer   1111   Delivery-Report   Enumer   1111   Delivery-Report   Enumer   1111   Sender-Visibility   Enumer   1111   Service-Key   UTF8Str   UTF8Str   1111   Service-Key   UTF8Str   UTF8Str   1111   Service-Key   UTF8Str   UTF8Str   UTF8Str   1111   Service-Key   UTF8Str	1047 Pre-emption-Capability		
1050   AN-GW-Address   Address   Grouped   Grouped   1052   QoS-Rule-Install   Grouped   1053   QoS-Rule-Definition   Grouped   1054   QoS-Rule-Definition   Grouped   1054   QoS-Rule-Name   OctetString   1055   QoS-Rule-Report   Grouped   1056   Security-Parameter-Index   IPFilterRule   1057   Flow-Label   OctetString   1058   Flow-Information   Grouped   1059   Packet-Filter-Content   IPFilterRule   1060   Packet-Filter-Identifier   OctetString   1061   Packet-Filter-Identifier   OctetString   1062   Packet-Filter-Operation   Grouped   1069   Packet-Filter-Operation   Grouped   1060   Packet-Filter-Operation   Enumerated   1063   Resource-Allocation-Notification   Enumerated   1063   Resource-Allocation-Notification   Enumerated   1060   Packet-Gilter-Operation   Enumerated   1060   Packet-Filter-Operation   Enumerated   1061   Packet-Filter-Operation   Enumerated   1062   Packet-Filter-Operation   Enumerated   1063   Resource-Allocation-Notification   Enumerated   1064   Packet-Filter-Operation   Enumerated   1066   Packet-Filter-Operation   Enumerated   1067   Packet-Filter-Operation   Enumerated   1068   Packet-Filter-Identifier   Groupe   1078   The AVP codes from 1064 to 1099 are reserved for TS 29.212   1078   10	1048 Pre-emption-Vulnerability	Enumerated	
1051   QoS-Rule-Install   Grouped     1052   QoS-Rule-Remove   Grouped     1053   QoS-Rule-Definition   Grouped     1054   QoS-Rule-Name   OctetString     1055   QoS-Rule-Name   OctetString     1056   Security-Parameter-Index   IPFilterRule     1057   Flow-Label   OctetString     1058   Flow-Information   Grouped     1059   Packet-Filter-Content   IPFilterRule     1060   Packet-Filter-Identifier   OctetString     1061   Packet-Filter-Identifier   OctetString     1062   Packet-Filter-Operation   Grouped     1063   Resource-Allocation-Notification   Enumerated     1063   Resource-Allocation-Notification   Enumerated     1061   Served-User-Identity   Groupe     1101   VASP-ID   UTF8Str     1102   VAS-ID   UTF8Str     1103   Trigger-Event   Enumer     1104   Sender-Address   UTF8Str     1105   Initial-Recipient-Address   Groupe     1106   Result-Recipient-Address   UTF8Str     1107   Sequence-Number   Unsigne     1108   Recipient-Address   UTF8Str     1110   Originating-Interface   Enumer     1111   Delivery-Report   Enumer     1111   Delivery-Report   Enumer     1111   Read-Reply   Enumer     1111   Service-Key   UTF8Str     1111   Service-Key   UTF8Str     1111   Service-Key   UTF8Str     1111   Service-Key   UTF8Str     1111   Octation-Recipient-Report   Enumer     1111   Octation-	1049 Default-EPS-Bearer-QoS	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   IPFilterRule     1057   Flow-Label   OctetString     1058   Flow-Information   Grouped     1059   Packet-Filter-Content   IPFilterRule     1060   Packet-Filter-Information   Grouped     1061   Packet-Filter-Information   Grouped     1062   Packet-Filter-Operation   Grouped     1063   Resource-Allocation-Notification   Enumerated     1063   Resource-Allocation-Notification   Enumerated     1064   Packet-Filter-Operation   Enumerated     1065   Packet-Filter-Operation   Enumerated     1066   Packet-Filter-Operation   Enumerated     1067   Packet-Filter-Information   Groupe     1108   Resource-Allocation-Notification   Enumerated     1068   Resource-Allocation-Notification   Enumerated     1078   Packet-Filter-Information   Enumerated     108   The AVP codes from 1064 to 1099 are reserved for TS 29.212     1100   Served-User-Identity   Groupe     1101   VASP-ID   UTF8Str     1102   VAS-ID   UTF8Str     1103   Trigger-Event   Enumer     1104   Sender-Address   Groupe     1105   Groupe     1106   Result-Recipient-Address   Groupe     1107   Sequence-Number   Unsigne     1108   Recipient-Address   UTF8Str     1109   Routeing-Address   UTF8Str     1110   Originating-Interface   Enumer     1111   Delivery-Report   Enumer     1111   Delivery-Report   Enumer     1111   Service-Key   UTF8Str     1111   Service-Key   UTF8Str     1112   Teach-Repider   Tenumer     1114   Service-Key   UTF8Str     1115   Trigger-Event   Tenumer     1111   Service-Key   UTF8Str     1111   Tenumer     1112   Teach-Repider   Tenumer     1113   Service-Key   UTF8Str     1114   Service-Key   UTF8Str     1115   Trigger-Event   Tenumer     1116   Trigger-Event   Tenumer     1117   Tenumer   Tenumer     1118   Tenumer   Tenumer     1119   Tenumer   Tenumer     1111   Tenumer   Tenumer     1111   Tenumer   Tenumer     1112   Tenumer   Tenumer     1113   Tenumer	1050 AN-GW-Address	Address	
1052   QoS-Rule-Remove   Grouped     1053   QoS-Rule-Definition   Grouped     1054   QoS-Rule-Name   OctetString     1055   QoS-Rule-Report   Grouped     1056   Security-Parameter-Index   IPFilterRule     1057   Flow-Label   OctetString     1058   Flow-Information   Grouped     1059   Packet-Filter-Content   IPFilterRule     1060   Packet-Filter-Information   Grouped     1061   Packet-Filter-Information   Grouped     1062   Packet-Filter-Operation   Grouped     1063   Resource-Allocation-Notification   Enumerated     1063   Resource-Allocation-Notification   Enumerated     1064   Packet-Filter-Operation   Enumerated     1065   Packet-Filter-Operation   Enumerated     1066   Packet-Filter-Operation   Enumerated     1067   Packet-Filter-Information   Groupe     1108   Resource-Allocation-Notification   Enumerated     1068   Resource-Allocation-Notification   Enumerated     1078   Packet-Filter-Information   Enumerated     108   The AVP codes from 1064 to 1099 are reserved for TS 29.212     1100   Served-User-Identity   Groupe     1101   VASP-ID   UTF8Str     1102   VAS-ID   UTF8Str     1103   Trigger-Event   Enumer     1104   Sender-Address   Groupe     1105   Groupe     1106   Result-Recipient-Address   Groupe     1107   Sequence-Number   Unsigne     1108   Recipient-Address   UTF8Str     1109   Routeing-Address   UTF8Str     1110   Originating-Interface   Enumer     1111   Delivery-Report   Enumer     1111   Delivery-Report   Enumer     1111   Service-Key   UTF8Str     1111   Service-Key   UTF8Str     1112   Teach-Repider   Tenumer     1114   Service-Key   UTF8Str     1115   Trigger-Event   Tenumer     1111   Service-Key   UTF8Str     1111   Tenumer     1112   Teach-Repider   Tenumer     1113   Service-Key   UTF8Str     1114   Service-Key   UTF8Str     1115   Trigger-Event   Tenumer     1116   Trigger-Event   Tenumer     1117   Tenumer   Tenumer     1118   Tenumer   Tenumer     1119   Tenumer   Tenumer     1111   Tenumer   Tenumer     1111   Tenumer   Tenumer     1112   Tenumer   Tenumer     1113   Tenumer	1051 QoS-Rule-Install	Grouped	
1053   QoS-Rule-Definition   Grouped     1054   QoS-Rule-Name   OctetString     1055   QoS-Rule-Report   Grouped     1056   Security-Parameter-Index   IPFilterRule     1057   Flow-Label   OctetString     1058   Flow-Information   Grouped     1059   Packet-Filter-Content   IPFilterRule     1060   Packet-Filter-Information   Grouped     1061   Packet-Filter-Information   Grouped     1062   Packet-Filter-Operation   Enumerated     1063   Resource-Allocation-Notification   Enumerated     1064   Note: The AVP codes from 1064 to 1099 are reserved for TS 29.212     1100   Served-User-Identity   Groupe     1101   VASP-ID   UTF8Str     1102   VAS-ID   UTF8Str     1103   Trigger-Event   Enumer     1104   Sender-Address   Groupe     1105   Initial-Recipient-Address   Groupe     1106   Result-Recipient-Address   Groupe     1107   Sequence-Number   Unsigne     1108   Recipient-Address   UTF8Str     1109   Routeing-Address   UTF8Str     1110   Originating-Interface   Enumer     1111   Delivery-Report   Enumer     1111   Read-Reply   Enumer     1111   Sender-Visibility   Enumer     1111   Service-Key   UTF8Str     1114   Service-Key   UTF8Str     1115   OctetString   Groupe     107   Groupe   Groupe   Groupe     108   Groupe   Groupe   Groupe     109   Groupe   Groupe     1100   Groupe   Groupe   Groupe     1101   Groupe   Groupe   Groupe     1102   Groupe   Groupe   Groupe     1103   Groupe   Groupe   Groupe     1104   Groupe   Groupe   Groupe     1105   Groupe   Groupe   Groupe     1106   Groupe   Groupe   Groupe     1107   Groupe   Groupe   Groupe     1108   Groupe   Groupe   Groupe     1109   Groupe   Groupe   Groupe     1100   Groupe   Groupe   Groupe     1101   Groupe   Groupe   Groupe     1102   Groupe   Groupe   Groupe     1103   Groupe   Groupe   Groupe   Groupe     1104   Groupe   Groupe   Groupe   Groupe     1107   Groupe   Groupe   Groupe   Groupe   Groupe     1108   Groupe   Gro	1052 QoS-Rule-Remove		
1054   QoS-Rule-Name   QotetString     1055   QoS-Rule-Report   Grouped     1056   Security-Parameter-Index   IPFilterRule     1057   Flow-Label   QotetString     1058   Flow-Information   Grouped     1059   Packet-Filter-Content   IPFilterRule     1060   Packet-Filter-Information   Grouped     1061   Packet-Filter-Information   Grouped     1062   Packet-Filter-Operation   Grouped     1063   Resource-Allocation-Notification   Enumerated     1063   Resource-Allocation-Notification   Enumerated     1064   Note: The AVP codes from 1064 to 1099 are reserved for TS 29.212     1100   Served-User-Identity   Groupe     1101   VASP-ID   UTF8Str     1102   VAS-ID   UTF8Str     1103   Trigger-Event   Enumer     1104   Sender-Address   UTF8Str     1105   Initial-Recipient-Address   Groupe     1106   Result-Recipient-Address   Groupe     1107   Sequence-Number   Unsigne     1108   Recipient-Address   UTF8Str     1109   Routeing-Address   UTF8Str     1110   Originating-Interface   Enumer     1111   Delivery-Report   Enumer     1112   Read-Reply   Enumer     1113   Sender-Visibility   Enumer     1114   Service-Key   UTF8Str     107   UTF8Str   UTF8Str     108   Care			
1055   QoS-Rule-Report   Grouped     1056   Security-Parameter-Index   IPFilterRule     1057   Flow-Label   OctetString     1058   Flow-Information   Grouped     1059   Packet-Filter-Content   IPFilterRule     1060   Packet-Filter-Identifier   OctetString     1061   Packet-Filter-Information   Grouped     1062   Packet-Filter-Operation   Enumerated     1063   Resource-Allocation-Notification   Enumerated     1064   Packet-Filter-Operation   Enumerated     1065   Resource-Allocation-Notification   Enumerated     1066   Packet-Filter-Operation   Enumerated     1075   Resource-Allocation-Notification   Enumerated     1076   Resource-Allocation-Notification   Enumerated     1077   Served-User-Identity   Groupe     1101   VAS-ID   UTF8Str     1102   VAS-ID   UTF8Str     1103   Trigger-Event   Enumer     1104   Sender-Address   UTF8Str     1105   Initial-Recipient-Address   Groupe     1106   Result-Recipient-Address   Groupe     1107   Sequence-Number   Unsigne     1108   Recipient-Address   UTF8Str     1109   Routeing-Address   UTF8Str     1110   Originating-Interface   Enumer     1111   Delivery-Report   Enumer     1111   Read-Reply   Enumer     1111   Service-Key   UTF8Str     1114   Service-Key   UTF8Str     1115   UTF8Str   UTF8Str     1116   UTF8Str   UTF8Str     1117   UTF8Str   UTF8Str     1118   Service-Key   UTF8Str     1119   UTF8Str   UTF8Str     1110   UTF8Str   UTF8Str     1111   UTF8Str   UTF8Str     1111   UTF8Str   UTF8Str   UTF8Str     1112   UTF8Str   UTF8Str   UTF8Str     1113   UTF8Str   UTF8Str   UTF8Str     1114   UTF8Str   UTF8Str   UTF8Str     1115   UTF8Str   UTF8Str   UTF8Str     1116   UTF8Str   UTF8Str   UTF8Str     1117   UTF8Str   UTF8Str   UTF8Str     1118   UTF8Str   UTF8Str   UTF8Str   UTF8Str     1119   UTF8Str   UTF8Str   UTF8Str   UTF8Str   UTF8Str     1110   UTF8Str   UTF	1054 QoS-Rule-Name		
1056   Security-Parameter-Index   IPFilterRule   1057   Flow-Label   OctetString   1058   Flow-Information   Grouped   1059   Packet-Filter-Content   IPFilterRule   OctetString   1060   Packet-Filter-Identifier   OctetString   1061   Packet-Filter-Information   Grouped   1062   Packet-Filter-Operation   Enumerated   1063   Resource-Allocation-Notification   Enumerated   1063   Resource-Allocation-Notification   Enumerated   1063   Resource-Allocation-Notification   Enumerated   1064   The AVP codes from 1064 to 1099 are reserved for TS 29.212   1100   Served-User-Identity   Groupe   UTF8Str   1102   VAS-ID   UTF8Str   1102   VAS-ID   UTF8Str   1103   Trigger-Event   Enumer   1104   Sender-Address   UTF8Str   1105   Initial-Recipient-Address   Groupe   1106   Result-Recipient-Address   Groupe   1107   Sequence-Number   Unsigne   1108   Recipient-Address   UTF8Str   1109   Routeing-Address   UTF8Str   1109   Routeing-Address   UTF8Str   1109   Routeing-Address   UTF8Str   1110   Originating-Interface   Enumer   1111   Delivery-Report   Enumer   1111   Delivery-Report   Enumer   1111   Read-Reply   Enumer   1111   Service-Key   UTF8Str   UTF8Str   UTF8Str   1114   Service-Key   UTF8Str   UTF8Str   UTF8Str   1114   Service-Key   UTF8Str			
1057   Flow-Label   OctetString			
1058   Flow-Information   Grouped     1059   Packet-Filter-Content   IPFilterRule     1060   Packet-Filter-Identifier   OctetString     1061   Packet-Filter-Information   Grouped     1062   Packet-Filter-Operation   Enumerated     1063   Resource-Allocation-Notification   Enumerated     1063   Resource-Allocation-Notification   Enumerated     1064   Resource-Allocation-Notification   Enumerated     1075   Resource-Identity   Groupe     1101   VASP-ID   UTF8Str     1102   VAS-ID   UTF8Str     1103   Trigger-Event   Enumer     1104   Sender-Address   UTF8Str     1105   Initial-Recipient-Address   Groupe     1106   Result-Recipient-Address   Groupe     1107   Sequence-Number   Unsigne     1108   Recipient-Address   UTF8Str     1109   Routeing-Address   UTF8Str     1110   Originating-Interface   Enumer     1111   Delivery-Report   Enumer     1112   Read-Reply   Enumer     1113   Sender-Visibility   Enumer     1114   Service-Key   UTF8Str     1116   Content   Content   Content     1116   Content   Content   Content     1117   Content   Content   Content     1118   Content   Content   Content     1119   Content   Content   Content     1110   Content   Content   Content     1111   Content   Content   Content     1112   Content   Content   Content     1113   Content   Content   Content     1114   Content   Content   Content     1115   Content   Content   Content     1116   Content   Content   Content     1117   Content   Content   Content     1118   Content   Content   Content     1119   Content   Content   Content     1110   Content   Content   Content     1111   Content   Content   Content     1112   Content   Content   Content     1114   Content   Content   Content     1115   Content   Content   Content     1116   Content   Content   Content     1117   Content   Content   Content     1118   Content   Content   Content     1119   Content   Content   Content     1111   Content   Content   Content     1112   Content   Content   Content     1113   Content   Content   Content     1114   Content   Content   Content			
1059   Packet-Filter-Content   IPFilterRule     1060   Packet-Filter-Identifier   OctetString     1061   Packet-Filter-Information   Grouped     1062   Packet-Filter-Operation   Enumerated     1063   Resource-Allocation-Notification   Enumerated     1063   Resource-Allocation-Notification   Enumerated     1064   Note: The AVP codes from 1064 to 1099 are reserved for TS 29.212     1100   Served-User-Identity   Groupe     1101   VASP-ID   UTF8Str     1102   VAS-ID   UTF8Str     1103   Trigger-Event   Enumer     1104   Sender-Address   UTF8Str     1105   Initial-Recipient-Address   Groupe     1106   Result-Recipient-Address   Groupe     1107   Sequence-Number   Unsigne     1108   Recipient-Address   UTF8Str     1109   Routeing-Address   UTF8Str     1110   Originating-Interface   Enumer     1111   Delivery-Report   Enumer     1112   Read-Reply   Enumer     1113   Sender-Visibility   Enumer     1114   Service-Key   UTF8Str     1116   Octeas   UTF8Str     1117   UTF8Str   UTF8Str     1118   Service-Key   UTF8Str     1119   UTF8Str   UTF8Str     1110   UTF8Str   UTF8Str     1111   UTF8Str   UTF8Str     1111   UTF8Str   UTF8Str   UTF8Str     1112   UTF8Str   UTF8Str   UTF8Str     1113   UTF8Str   UTF8Str   UTF8Str     1114   UTF8Str   UTF8Str   UTF8Str     1115   UTF8Str   UTF8Str   UTF8Str     1116   UTF8Str   UTF8Str   UTF8Str     1117   UTF8Str   UTF8Str   UTF8Str     1118   UTF8Str   UTF8Str   UTF8Str   UTF8Str     1119   UTF8Str   UTF8Str   UTF8Str   UTF8Str   UTF8Str     1110   UTF8Str   UTF			
1060   Packet-Filter-Identifier   OctetString     1061   Packet-Filter-Information   Grouped     1062   Packet-Filter-Operation   Enumerated     1063   Resource-Allocation-Notification   Enumerated     Note: The AVP codes from 1064 to 1099 are reserved for TS 29.212     1100   Served-User-Identity   Groupe     1101   VASP-ID   UTF8Str     1102   VAS-ID   UTF8Str     1103   Trigger-Event   Enumer     1104   Sender-Address   UTF8Str     1105   Initial-Recipient-Address   Groupe     1106   Result-Recipient-Address   Groupe     1107   Sequence-Number   Unsigne     1108   Recipient-Address   UTF8Str     1109   Routeing-Address   UTF8Str     1110   Originating-Interface   Enumer     1111   Delivery-Report   Enumer     1112   Read-Reply   Enumer     1113   Sender-Visibility   Enumer     1114   Service-Key   UTF8Str     UTF8Str   UTF8Str     UTF8Str   UTF8Str			
Total Packet-Filter-Information   Grouped			
Total Packet-Filter-Operation			
Total Resource-Allocation-Notification   Enumerated			
Note: The AVP codes from 1064 to 1099 are reserved for TS 29.212  1100 Served-User-Identity Groupe 1101 VASP-ID UTF8Str 1102 VAS-ID UTF8Str 1103 Trigger-Event Enumer 1104 Sender-Address Groupe 1106 Result-Recipient-Address Groupe 1107 Sequence-Number Unsigne 1108 Recipient-Address UTF8Str 1109 Routeing-Address UTF8Str 1110 Originating-Interface Enumer 1111 Delivery-Report Enumer 1112 Read-Reply Enumer 1113 Sender-Visibility Enumer 1114 Service-Key UTF8Str			
1100 Served-User-Identity         Groupe           1101 VASP-ID         UTF8Str           1102 VAS-ID         UTF8Str           1103 Trigger-Event         Enumer           1104 Sender-Address         UTF8Str           1105 Initial-Recipient-Address         Groupe           1106 Result-Recipient-Address         Groupe           1107 Sequence-Number         Unsigne           1108 Recipient-Address         UTF8Str           1109 Routeing-Address         UTF8Str           1110 Originating-Interface         Enumer           1111 Delivery-Report         Enumer           1112 Read-Reply         Enumer           1113 Sender-Visibility         Enumer           1114 Service-Key         UTF8Str		Lituinerateu	
1101 VASP-ID         UTF8Str           1102 VAS-ID         UTF8Str           1103 Trigger-Event         Enumer           1104 Sender-Address         UTF8Str           1105 Initial-Recipient-Address         Groupe           1106 Result-Recipient-Address         Groupe           1107 Sequence-Number         Unsigne           1108 Recipient-Address         UTF8Str           1109 Routeing-Address         UTF8Str           1110 Originating-Interface         Enumer           1111 Delivery-Report         Enumer           1112 Read-Reply         Enumer           1113 Sender-Visibility         Enumer           1114 Service-Key         UTF8Str		Groupe	
1102 VAS-IDUTF8Str1103 Trigger-EventEnumer1104 Sender-AddressUTF8Str1105 Initial-Recipient-AddressGroupe1106 Result-Recipient-AddressGroupe1107 Sequence-NumberUnsigne1108 Recipient-AddressUTF8Str1109 Routeing-AddressUTF8Str1110 Originating-InterfaceEnumer1111 Delivery-ReportEnumer1112 Read-ReplyEnumer1113 Sender-VisibilityEnumer1114 Service-KeyUTF8Str			
1103 Trigger-EventEnumer1104 Sender-AddressUTF8Str1105 Initial-Recipient-AddressGroupe1106 Result-Recipient-AddressGroupe1107 Sequence-NumberUnsigne1108 Recipient-AddressUTF8Str1109 Routeing-AddressUTF8Str1110 Originating-InterfaceEnumer1111 Delivery-ReportEnumer1112 Read-ReplyEnumer1113 Sender-VisibilityEnumer1114 Service-KeyUTF8Str			
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1100 Recipient-Address 1109 Routeing-Address 1110 Originating-Interface 1111 Delivery-Report 1112 Read-Reply 1113 Sender-Visibility 1114 Service-Key 1115 Service-Key 1116 OTFOSTI 1117 Enumer 1117 Enumer 1118 Enumer 1119 Enumer 1119 Enumer 1119 Enumer 1119 Enumer 1119 Enumer 1119 Enumer 1119 Enumer 1119 Enumer			29.140 [16]
1110 Originating-InterfaceEnumer1111 Delivery-ReportEnumer1112 Read-ReplyEnumer1113 Sender-VisibilityEnumer1114 Service-KeyUTF8Str			1
1111 Delivery-ReportEnumer1112 Read-ReplyEnumer1113 Sender-VisibilityEnumer1114 Service-KeyUTF8Str			
1112 Read-ReplyEnumer1113 Sender-VisibilityEnumer1114 Service-KeyUTF8Str			
1113 Sender-Visibility Enumer 1114 Service-Key UTF8Str			
1114 Service-Key UTF8Str			
1115 Billing-Information UTF8Str			
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1110   Salaus Code	4440 Ctatus	Cravia	
Mote: The AMP codes from 1119 to 1199 are reserved for TS 29.140	1116 Status	Group	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140			
1200   Domain-Name		UTF85tr	
		LITEOCATion	
1202 Submission-Time			
1203 MM-Content-Type			
1204   Type-Number			
1205 Additional-Type-Information			
1206   Content-Size   Unsigned32   1207   Additional-Content-Information   Grouped   1208   Addressee-Type   Enumerated   1209   Priority   Enumerated   1209   Priority   Enumerated   1210   Message-ID   UTF8String   1211   Message-Size   Unsigned32   1213   Message-Gises   Unsigned32   1213   Message-Gises   Unsigned32   1213   Message-Gises   Grouped   1214   Class-Identifier   Enumerated   1215   Token-Text   UTF8String   1216   Delivery-Report-Requested   Enumerated   1217   Adaptations   Enumerated   1217   Adaptations   Enumerated   1218   Applic-Info   UTF8String   1219   Aux-Applic-Info   UTF8String   1219   Aux-Applic-Info   UTF8String   1220   Content-Class   Enumerated   Enumerated   1222   Read-Reply-Report-Requested   Enumerated   1223   Reply-Applic-ID   UTF8String   1224   File-Repair-Supported   Enumerated   1223   Reply-Applic-ID   UTF8String   1224   File-Repair-Supported   Enumerated   1225   MBMS-User-Service-Type   Enumerated   1225   MBMS-User-Service-Type   Enumerated   1226   Unit-Quota-Threshold   Unsigned32   1227   PDP-Address   Address   Ad			
1207   Additional-Content-Information   Grouped			
1208   Addressee-Type		Ü	
1210   Message-IVp			
1213   Message-Size		-	
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   1219   Aux-Applic-Info   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   1225   Reply-Applic-ID   UTF8String   1225   File-Repair-Supported   Enumerated   1225   MBMS-User-Service-Type   Enumerated   1226   Unit-Quota-Threshold   Unsigned32   1227   PDP-Address   Address   Address   1228   GSR-Address   Address   Address   1228   GSR-Address   Address   1229   PoC-Session-Id   UTF8String   1231   LCS-Client-Name   UTF8String   1231   LCS-Client-Name   UTF8String   1231   LCS-Client-Name   UTF8String   1232   LCS-Client-Idal-By-MS   UTF8String   1235   LCS-Client-Idal-By-MS   UTF8String   1235   LCS-Client-Idal-By-MS   UTF8String   1235   LCS-Client-Name   Grouped   1236   LCS-Data-Coding-Scheme   UTF8String   1231   LCS-Client-Name   Grouped   1240   LCS-Requestor-Id-String   UTF8String   UTF8String   1241   LCS-Client-Type   Enumerated   1242   Location-Estimate   UTF8String   UTF8String   1244   LCS-Client-Type   Enumerated   1245   Destroing-Data   UTF8String   1246   UTF8String   1247   PDP-Context-Type   Enumerated   1248   Destroing-Data   UTF8String   1248   Destroing-Data   UTF8String   1248   Destroing-Data   UTF8String   1249   Port-Ortext-Type   Enumerated   1250   Called-Assented-Identity   UTF8String   1251   Requested-Party-Address   UTF8String   1251   Republic Party-Address   UTF8String   1251   Republic Party-			
1214   Class-Identifier			
1215   Token-Text			
1216   Delivery-Report-Requested			
1216   Applic-ID			
1218   Applic-ID			
1219   Aux-Applic-Info			
1220   Content-Class			
1221   DRM-Content			
1222   Read-Reply-Report-Requested			
1223   Reply-Applic-ID			
1224   File-Repair-Supported   Enumerated   1225   MBMS-User-Service-Type   Enumerated   1226   Unit-Quota-Threshold   Unsigned32   1227   PDP-Address   Address   Address   Address   1228   SGSN-Address   Address   Address   Address   1228   POP-Session-Id   UTF8String   1239   POP-Session-Id   UTF8String   1231   LCS-Client-Name   UTF8String   1232   LCS-Client-Name   UTF8String   1232   LCS-Client-Id   Grouped   1233   LCS-Client-Dialed-By-MS   UTF8String   1234   LCS-Client-Dialed-By-MS   UTF8String   1235   LCS-Client-Name   Grouped   1236   LCS-Data-Coding-Scheme   UTF8String   1237   LCS-Format-Indicator   Enumerated   1238   LCS-Name-String   UTF8String   1238   LCS-Name-String   UTF8String   UTF8String   1238   LCS-Requestor-Id-String   UTF8String   1241   LCS-Client-Type   Enumerated   1242   Location-Estimate   UTF8String   1243   Location-Estimate   UTF8String   1244   Location-Estimate   UTF8String   1244   Location-Estimate   UTF8String   1244   Location-Type   Grouped   1245   Positioning-Data   UTF8String   1246   WIAN-Session-Id   UTF8String   1247   PDP-Context-Type   Enumerated   1248   MMBox-Storage-Requested   Enumerated   1249   Service-Specific-Info   Grouped   1250   Called-Asserted-Identity   UTF8String   1251   Requested-Party-Address   UTF8String   1252   PoC-User-Role-IDs   UTF8String   1253   PoC-User-Role-IDs   UTF8String   1254   PoC-User-Role-IDs   UTF8String   1255   Talk-Burst-Exchange   Grouped   1256   Service-Specific-Info-Mist   Enumerated   1256   Service-Specific-Type   Unsigned32   1258   Event-Charging-TimeStamp   Time   1259   Participant-Access-Priority   Enumerated   1250   125			
1225   MBMS-User-Service-Type		·	
1226 Unit-Quota-Threshold			
1227   PDP-Address			
1228   SGSN-Address   Address   UTF8String   UTF8String   1230   Deferred-Location-Even-Type   UTF8String   1231   LCS-Client-Name   UTF8String   1232   LCS-Client-Name   UTF8String   1232   LCS-Client-Id   Grouped   1233   LCS-Client-Dialed-By-MS   UTF8String   1234   LCS-Client-External-ID   UTF8String   1235   LCS-Client-Name   Grouped   1236   LCS-Client-Name   Grouped   1236   LCS-Client-Name   Grouped   1237   LCS-Client-Name   Grouped   1238   LCS-Name-String   UTF8String   UTF8String   1239   LCS-Name-String   UTF8String   UTF8String   1239   LCS-Requestor-Id   Grouped   1240   LCS-Requestor-Id   Grouped   1241   LCS-Client-Type   Enumerated   1242   Location-Estimate   UTF8String   1243   Location-Estimate   UTF8String   1244   Location-Type   Grouped   1245   Positioning-Data   UTF8String   1246   WLAN-Session-Id   UTF8String   1247   PDP-Context-Type   Enumerated   1248   WLAN-Session-Id   UTF8String   1249   Service-Specific-Info   Grouped   1250   Called-Asserted-Identity   UTF8String   1251   Requested-Party-Address   UTF8String   1252   PoC-User-Role-IDs   UTF8String   1253   PoC-User-Role-IDs   UTF8String   1254   PoC-User-Role-IDs   UTF8String   1255   Talk-Burst-Exchange   Grouped   1255   Service-Specific-Type   Unsigned32   1256   Service-Specific-Type   Unsigned32   1258   Event-Charging-TimeStamp   Time   1259   Participant-Access-Priority   Enumerated			
1239   PoC-Session-Id			
1230   Deferred-Location-Even-Type   UTF8String   1231   LCS-Client-Name   UTF8String   1232   LCS-Client-Id   Grouped   UTF8String   1233   LCS-Client-Dialed-By-MS   UTF8String   UTF8String   1235   LCS-Client-External-ID   UTF8String   UTF8String   1236   LCS-Client-Name   Grouped   UTF8String   UTF8String   1237   LCS-Format-Indicator   Enumerated   UTF8String   UTF8String   1239   LCS-Requestor-Id   Grouped   UTF8String   UT			
1231 LCS-Client-Name			
1232 LCS-Client-Id			32.299 [5]
1233   LCS-Client-Dialed-By-MS   UTF8String   1234   LCS-Client-External-ID   UTF8String   1235   LCS-Client-Name   Grouped   1236   LCS-Data-Coding-Scheme   UTF8String   1237   LCS-Format-Indicator   Enumerated   1238   LCS-Name-String   UTF8String   UTF8String   1239   LCS-Requestor-Id   Grouped   1240   LCS-Requestor-Id   Grouped   1240   LCS-Requestor-Id-String   UTF8String   1241   LCS-Client-Type   Enumerated   1242   Location-Estimate   UTF8String   1243   Location-Estimate   UTF8String   1244   Location-Estimate   UTF8String   1245   Positioning-Data   UTF8String   1246   WLAN-Session-Id   UTF8String   1247   PDP-Context-Type   Enumerated   1248   MMBox-Storage-Requested   Enumerated   1249   Service-Specific-Info   Grouped   1250   Called-Asserted-Identity   UTF8String   1251   Requested-Party-Address   UTF8String   1252   PoC-User-Role-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   1259   Participant-Access-Priority   Enumerated   1250   Participant-Access-			
1234   LCS-Client-External-ID			
1235       LCS-Client-Name       Grouped         1236       LCS-Data-Coding-Scheme       UTF8String         1237       LCS-Format-Indicator       Enumerated         1238       LCS-Name-String       UTF8String         1239       LCS-Requestor-Id       Grouped         1240       LCS-Requestor-Id-String       UTF8String         1241       LCS-Client-Type       Enumerated         1242       Location-Estimate       UTF8String         1243       Location-Estimate-Type       Enumerated         1244       Location-Fstimate-Type       Grouped         1245       Positioning-Data       UTF8String         1246       WLAN-Session-Id       UTF8String         1247       PDP-Context-Type       Enumerated         1248       MMBox-Storage-Requested       Enumerated         1249       Service-Specific-Info       Grouped         1250       Called-Asserted-Identity       UTF8String         1251       Requested-Party-Address       UTF8String         1252       PoC-User-Role-IDS       UTF8String         1253       PoC-User-Role-IDS       UTF8String         1254       PoC-User-Role-Info-Units       Enumerated         1255       Talk			
1236 LCS-Data-Coding-Scheme     UTF8String       1237 LCS-Format-Indicator     Enumerated       1238 LCS-Name-String     UTF8String       1239 LCS-Requestor-Id     Grouped       1240 LCS-Requestor-Id-String     UTF8String       1241 LCS-Client-Type     Enumerated       1242 Location-Estimate     UTF8String       1243 Location-Estimate-Type     Enumerated       1244 Location-Type     Grouped       1245 Positioning-Data     UTF8String       1246 WLAN-Session-Id     UTF8String       1247 PDP-Context-Type     Enumerated       1248 MMBox-Storage-Requested     Enumerated       1249 Service-Specific-Info     Grouped       1250 Called-Asserted-Identity     UTF8String       1251 Requested-Party-Address     UTF8String       1252 PoC-User-Role     Grouped       1253 PoC-User-Role-IDs     UTF8String       1254 PoC-User-Role-IDs     UTF8String       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			
1237 LCS-Format-Indicator       Enumerated         1238 LCS-Name-String       UTF8String         1239 LCS-Requestor-Id       Grouped         1240 LCS-Requestor-Id-String       UTF8String         1241 LCS-Client-Type       Enumerated         1242 Location-Estimate       UTF8String         1243 Location-Estimate-Type       Enumerated         1244 Location-Type       Grouped         1245 Positioning-Data       UTF8String         1246 WLAN-Session-Id       UTF8String         1247 PDP-Context-Type       Enumerated         1248 MMBox-Storage-Requested       Enumerated         1249 Service-Specific-Info       Grouped         1250 Called-Asserted-Identity       UTF8String         1251 Requested-Party-Address       UTF8String         1252 PoC-User-Role       Grouped         1253 PoC-User-Role-IDs       UTF8String         1254 PoC-User-Role-IDs       UTF8String         1255 Talk-Burst-Exchange       Grouped         1255 Talk-Burst-Exchange       Grouped         1257 Service-Specific-Type       Unsigned32         1258 Event-Charging-TimeStamp       Time         1259 Participant-Access-Priority       Enumerated			
1238LCS-Name-StringUTF8String1239LCS-Requestor-IdGrouped1240LCS-Requestor-Id-StringUTF8String1241LCS-Client-TypeEnumerated1242Location-EstimateUTF8String1243Location-Estimate-TypeEnumerated1244Location-TypeGrouped1245Positioning-DataUTF8String1246WLAN-Session-IdUTF8String1247PDP-Context-TypeEnumerated1248MMBox-Storage-RequestedEnumerated1249Service-Specific-InfoGrouped1250Called-Asserted-IdentityUTF8String1251Requested-Party-AddressUTF8String1252PoC-User-RoleGrouped1253PoC-User-Role-IDsUTF8String1254PoC-User-Role-Info-UnitsEnumerated1255Talk-Burst-ExchangeGrouped1256Service-Generic-InformationGrouped1257Service-Generic-InformationGrouped1258Event-Charging-TimeStampTime1259Participant-Access-PriorityEnumerated	S S	U U	
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1240 LCS-Requestor-Id-StringUTF8String1241 LCS-Client-TypeEnumerated1242 Location-EstimateUTF8String1243 Location-Estimate-TypeEnumerated1244 Location-TypeGrouped1245 Positioning-DataUTF8String1246 WLAN-Session-IdUTF8String1247 PDP-Context-TypeEnumerated1248 MMBox-Storage-RequestedEnumerated1249 Service-Specific-InfoGrouped1250 Called-Asserted-IdentityUTF8String1251 Requested-Party-AddressUTF8String1252 PoC-User-RoleGrouped1253 PoC-User-Role-IDsUTF8String1254 PoC-User-Role-info-UnitsEnumerated1255 Talk-Burst-ExchangeGrouped1256 Service-Generic-InformationGrouped1257 Service-Specific-TypeUnsigned321258 Event-Charging-TimeStampTime1259 Participant-Access-PriorityEnumerated			
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1243Location-Estimate-TypeEnumerated1244Location-TypeGrouped1245Positioning-DataUTF8String1246WLAN-Session-IdUTF8String1247PDP-Context-TypeEnumerated1248MMBox-Storage-RequestedEnumerated1249Service-Specific-InfoGrouped1250Called-Asserted-IdentityUTF8String1251Requested-Party-AddressUTF8String1252PoC-User-RoleGrouped1253PoC-User-Role-IDsUTF8String1254PoC-User-Role-info-UnitsEnumerated1255Talk-Burst-ExchangeGrouped1255Service-Generic-InformationGrouped1257Service-Specific-TypeUnsigned321258Event-Charging-TimeStampTime1259Participant-Access-PriorityEnumerated			
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1249Service-Specific-InfoGrouped1250Called-Asserted-IdentityUTF8String1251Requested-Party-AddressUTF8String1252PoC-User-RoleGrouped1253PoC-User-Role-IDsUTF8String1254PoC-User-Role-info-UnitsEnumerated1255Talk-Burst-ExchangeGrouped1256Service-Generic-InformationGrouped1257Service-Specific-TypeUnsigned321258Event-Charging-TimeStampTime1259Participant-Access-PriorityEnumerated			
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1252PoC-User-RoleGrouped1253PoC-User-Role-IDsUTF8String1254PoC-User-Role-info-UnitsEnumerated1255Talk-Burst-ExchangeGrouped1256Service-Generic-InformationGrouped1257Service-Specific-TypeUnsigned321258Event-Charging-TimeStampTime1259Participant-Access-PriorityEnumerated			
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1257 Service-Specific-TypeUnsigned321258 Event-Charging-TimeStampTime1259 Participant-Access-PriorityEnumerated			
1258 Event-Charging-TimeStampTime1259 Participant-Access-PriorityEnumerated			
1259 Participant-Access-Priority Enumerated		·	
1260 Participant-Group Grouped			
	1260   Participant-Group	Grouped	

1201 DeC Change Conditions	Francisco d	
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	
	Time	
1275 SDP-Answer-Timestamp		
1276 AF-Correlation-Information	Grouped	
1277 PoC-Session-Initiation-type	Enumerated	
1278 Offline-Charging	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
	UTF6String	
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	OctetString	
1408 Requested-EUTRAN-Authentication-Info	Grouped	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped	
1410 Number-Of-Requested-Vectors	Unsigned32	
1411 Re-Synchronization-Info	OctetString	
1412 Immediate-Response-Preferred	Unsigned32	
1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	
1417 Network-Access-Mode	Enumerated	20 272 [24]
1418 HPLMN-ODB	Enumerated	29.272 [21]
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
1426 Access-Restriction-Data	UTF8String	
1427 APN-OI-Replacement	UTF8String	
1428 All-APN-Configurations-Included-Indicator	Enumerated	
1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile	Grouped	
1432 VPLMN-Dynamic-Address-Allowed	Enumerated	
1433 STN-SR	OctetString	
1434 Alert-Reason		
11434141611-10643011	Enumerated	
1435 AMBR	Enumerated Grouped	

100 000	0.1	
	Subscription-Data	Grouped
1437 CSG		Unsigned32
	GW-Allocation-Type	Enumerated
	ation-Date	Time
1440 RAT-	Frequency-Selection-Priority-ID	Unsigned32
441 IDA-I		Unsigned32
442 PUA	Flags	Unsigned32
443 NOR	Flags	Unsigned32
444 User	Id	UTF8String
445 Equir	ment-Status	Enumerated
	nal-Subscription-Zone-Code	OctetString
1447 RAN		OctetString
448 XRE		OctetString
1449 AUTI		OctetString
450 KASI		OctetString
451 Rese		- Colololling
	-Collection-Entity	Address
452 Hace	-Collection-Entity	OctetString
	<u> </u>	
454 SRE		OctetString
455 Rese		
456 PDN	Type	Enumerated
	ning-Restricted-Due-To-Unsupported-Feature	Enumerated
458 Trace		Grouped
	-Reference	OctetString
460 Rese		-
461 Rese		-
462 Trace		Enumerated
	-NE-Type-List	OctetString
464 Trace	-Interface-List	OctetString
465 Trace	-Event-List	OctetString
466 OMC	-ld	OctetString
467 GPR	S-Subscription-Data	Grouped
	olete-Data-List-Included-Indicator	Enumerated
469 PDP		Grouped
470 PDP		OctetString
471 3GPI		OctetString
	fic-APN-Info	Grouped
473 LCS-		Grouped
474 GML		OctetString
	PrivacyException	Grouped
476 SS-C		OctetString
477 SS-S		Grouped
	cation-To-UE-User	Enumerated
479 Exter		Grouped
		OctetString
480 Clien		ŭ
	C-Restriction	Enumerated
482 PLMI		Enumerated
483 Servi		Grouped
	ceTypeIdentity	Unsigned32
485 MO-L		Grouped
	ervice-List	Grouped
487 TS-C		Enumerated
	Barring-Infor-List	Grouped
489 SGS		OctetString
490 IDR-I		Unsigned32
491 ICS-I		Enumerated
492 IMS-	/oice-Over-PS-Sessions-Supported	Enumerated
493 Hom	ogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated
	JE-Activity-Time	Time
	User-State	Grouped
_	Location-Information	Grouped
496 EPS-		pou
		Grouped
1497 MME	-User-State	Grouped Grouped
497 MME	-User-State N-User-State	Grouped Grouped Enumerated

1500 Non 2CRR Hoor Data	Crounad	
1500 Non-3GPP-User-Data	Grouped Enumerated	
1501 Non-3GPP-IP-Access		
1502 Non-3GPP-IP-Access-APN	Enumerated	29.273 [20]
1503 AN-Trusted	Enumerated	
1504 ANID	UTF8String	
1505 Trace-Info	Grouped	
Note: The AVP codes from 1506 to 1599 are reserved for TS 29.273		
1600 MME-Location-Information	Grouped	
1601 SGSN-Location-Information	Grouped	
1602 E-UTRAN-Cell-Global-Identity	OctetString	
1603 Tracking-Area-Identity	OctetString	
1604 Cell-Global-Identity	OctetString	
1605 Routing-Area-Identity	OctetString	29.272 [21]
1606 Location-Area-Identity	OctetString	29.272 [21]
1607 Service-Area-Identity	OctetString	
1608 Geographical-Information	OctetString	
1609 Geodetic-Information	OctetString	
1610 Current-Location-Retrieved	Enumerated	
1611 Age-Of-Location-Information	Unsigned32	
Note: The AVP codes from 1620 to 1699 are reserved for TS 29.272.	<del>g</del>	
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	Time	
2013 SM-Protocol-ID	OctetString	
2014 SM-Status	OctetString	
2015 SM-User-Data-Header	OctetString	
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	32.299 [5]
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 Service-Type	Unsigned32	
2032 Service-Mode	Unsigned32	
2033 Subscriber-Role	Enumerated	
2034 Number-Of-Diversions	Unsigned32	
2035 Associated-Party-Address	UTF8String	
2036 SDP-Type		
120001001 - 1 400		
	Enumerated	
2037 Change-Condition	Enumerated Integer32	
2037 Change-Condition 2038 Change-Time	Enumerated Integer32 Time	
2037 Change-Condition 2038 Change-Time 2039 Diagnostics	Enumerated Integer32 Time Integer32	
2037 Change-Condition 2038 Change-Time 2039 Diagnostics 2040 Service-Data-Container	Enumerated Integer32 Time Integer32 Grouped	
2037 Change-Condition 2038 Change-Time 2039 Diagnostics 2040 Service-Data-Container 2041 Start-Time	Enumerated Integer32 Time Integer32 Grouped Time	
2037 Change-Condition 2038 Change-Time 2039 Diagnostics 2040 Service-Data-Container 2041 Start-Time 2042 Stop-Time	Enumerated Integer32 Time Integer32 Grouped Time Time	
2037 Change-Condition 2038 Change-Time 2039 Diagnostics 2040 Service-Data-Container 2041 Start-Time	Enumerated Integer32 Time Integer32 Grouped 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-Id	Enumerated	
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	
Note: The AVP codes from 2067 to 2099 are reserved for TS 32.299	Liiuiiitialtu	
2100 reserved		
2100 reserved 2101 Application-Server-ID	- UTF8String	
2101 Application-Server-ID 2102 Application-Service-Type	Enumerated	
2103 Application-Session-ID	Unsigned32	
2104 Delivery-Status	UTF8String	
2105 reserved	-	
2106 reserved	-	
2107 reserved	-	
2108 reserved	-	32.299 [5]
2109 reserved		
2110 IM-Information	Grouped	
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112 Number-Of-Messages-Successfully-Sent	Unsigned32	
2113 Total-Number-Of-Messages-Exploded	Unsigned32	
2114 Total-Number-Of-Messages-Sent	Unsigned32	
2115 DCD-Information	Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String	
Note: The AVP codes from 2118 to 2199 are reserved for TS 32.299		
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	00 045 [00]
		70 716 1771
2202 Subsession-Id	Unsigned32	29.215 [22]
2202 Subsession-Id 2203 Subsession-Operation		29.215 [22]
2202 Subsession-Id	Unsigned32	29.215 [22]
2202 Subsession-Id 2203 Subsession-Operation	Unsigned32	29.215 [22]
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215	Unsigned32	29.215 [22]
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction	Unsigned32 Enumerated	29.215 [22]
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction	Unsigned32 Enumerated  - Unsigned32 Unsigned32	29.215 [22]
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag	Unsigned32 Enumerated  - Unsigned32 Unsigned32 Enumerated	29.215 [22]
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information	Unsigned32 Enumerated  Unsigned32 Unsigned32 Enumerated OctetString	29.215 [22]
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information	Unsigned32 Enumerated  Unsigned32 Unsigned32 Enumerated OctetString Grouped	29.215 [22]
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information 2306 Tariff-XML	Unsigned32 Enumerated  Unsigned32 Unsigned32 Enumerated OctetString Grouped UTF8String	29.215 [22]
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information 2306 Tariff-XML 2307 MBMS GW-Address	Unsigned32 Enumerated  Unsigned32 Unsigned32 Enumerated OctetString Grouped UTF8String Address	
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information 2306 Tariff-XML 2307 MBMS GW-Address 2308 IMSI-Unauthenticated-Flag	Unsigned32 Enumerated  Unsigned32 Unsigned32 Enumerated OctetString Grouped UTF8String Address Enumerated	32.299 [5]
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information 2306 Tariff-XML 2307 MBMS GW-Address 2308 IMSI-Unauthenticated-Flag 2309 Account-Expiration	Unsigned32 Enumerated  Unsigned32 Unsigned32 Enumerated OctetString Grouped UTF8String Address Enumerated Time	
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information 2306 Tariff-XML 2307 MBMS GW-Address 2308 IMSI-Unauthenticated-Flag 2309 Account-Expiration 2310 AoC-Format	Unsigned32 Enumerated	
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information 2306 Tariff-XML 2307 MBMS GW-Address 2308 IMSI-Unauthenticated-Flag 2309 Account-Expiration 2310 AoC-Format 2311 AoC-Service	Unsigned32 Enumerated	
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information 2306 Tariff-XML 2307 MBMS GW-Address 2308 IMSI-Unauthenticated-Flag 2309 Account-Expiration 2310 AoC-Format 2311 AoC-Service 2312 AoC-Service-Obligatory-Type	Unsigned32 Enumerated  - Unsigned32 Unsigned32 Enumerated OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped	
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information 2306 Tariff-XML 2307 MBMS GW-Address 2308 IMSI-Unauthenticated-Flag 2309 Account-Expiration 2310 AoC-Format 2311 AoC-Service 2312 AoC-Service-Obligatory-Type 2313 AoC-Service-Type	Unsigned32 Enumerated	
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information 2306 Tariff-XML 2307 MBMS GW-Address 2308 IMSI-Unauthenticated-Flag 2309 Account-Expiration 2310 AoC-Format 2311 AoC-Service 2312 AoC-Service-Obligatory-Type 2313 AoC-Service-Type 2314 AoC-Subscription-Information	Unsigned32 Enumerated  Unsigned32 Unsigned32 Enumerated OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped Enumerated Grouped Enumerated	
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information 2306 Tariff-XML 2307 MBMS GW-Address 2308 IMSI-Unauthenticated-Flag 2309 Account-Expiration 2310 AoC-Format 2311 AoC-Service 2312 AoC-Service-Obligatory-Type 2313 AoC-Service-Type 2314 AoC-Subscription-Information 2315 Preferred-AoC-Currency	Unsigned32 Enumerated	
2202 Subsession-Id 2203 Subsession-Operation Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information 2306 Tariff-XML 2307 MBMS GW-Address 2308 IMSI-Unauthenticated-Flag 2309 Account-Expiration 2310 AoC-Format 2311 AoC-Service 2312 AoC-Service-Obligatory-Type 2313 AoC-Service-Type 2314 AoC-Subscription-Information	Unsigned32 Enumerated  Unsigned32 Unsigned32 Enumerated OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped Enumerated Grouped Enumerated	

2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
Note: The AVP codes from 2320 to 2399 are reserved for TS 32.29	99	
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	20 472 [25]
2404 LCS-Capabilities-Sets	Unsigned32	29.173 [25]
2405 GMLC-Address	Address	
2406 Additional-Serving-Node	Grouped	
2407 PPR-Address	Address	
Note: The AVP codes from 2408 to 2499 are reserved for TS 29.1	73	
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 29.1	72	

# 8 Experimental result codes

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

# 8.1 3GPP specific result codes

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

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

#### 8.1.1 Informational

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

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

#### 8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

Experimental	Result text	Specified in the TS
Result Code		
2001	DIAMETER_FIRST_REGISTRATION	
2002	DIAMETER_SUBSEQUENT_REGISTRATION	
2003	DIAMETER_UNREGISTERED_SERVICE	29.229 [2]
2004	DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED	
2005	Deprecated value	
Note: The 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 Experime	ental 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]
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS	
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.	
•		29.061 [13]
Note: The Experime	ntal Result Codes from 4121 to 4140 are reserved for the TS 29.061.	
4141	DIAMETER_PCC_BEARER_EVENT	29.212 [19]
Note: The Experime	ntal Result Codes from 4142 to 4160 are reserved for the TS 29.212	
		32.299 [5]
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.	
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	29.272 [21]
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	29.172 [24]
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]
4225	DIAMETER_ERROR_POSITIONING_FAILED	
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT	
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.	·

#### 8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	29.229 [2]
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED	
	erimental Result Codes from 5012 to 5020 are reserved for the TS	3 29 229
TTOTO: THO Expe	Thin that i toodk ooded from oo in to obe and i cool to a for the interest	32.299 [5]
Note: The Expe	erimental Result Codes from 5021 to 5040 are reserved for the TS	
5041	DIAMETER ERROR USER NO WLAN SUBSCRIPTION	02.200.
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5043	DIAMETER ERROR NO ACCESS INDEPENDENT SUBSC	
3043	RIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	
	erimental Result Codes from 5046 to 5060 are reserved for the TS	2 20 224
5061	INVALID_SERVICE_INFORMATION	
	FILTER_RESTRICTIONS	29.209 [8], 29.211 [17]
5062		
29.2		9.209 and 15
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	20.020 [4]
	OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	erimental Result Codes from 5109 to 5119 are reserved for the TS	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	
Note: The Expe	erimental Result Codes from 5124 to 5139 are reserved for the TS	S 29.061.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	00 040 [40]
5143	DIAMETER ERROR BEARER NOT AUTHORIZED	29.212 [19]
5143	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	
	D	
Note: The Expe	erimental Result Codes from 5144 to 5159 are reserved for the TS	S 29.212.
5401	DIAMETER_ERROR_IMPI_UNKNOWN	
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	
	erimental Result Codes from 5404 to 5419 are reserved for the TS	S 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	2011001
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER ERROR EQUIPMENT_UNKNOWN	۲۵.۲۱۲ و۱۱
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	
	erimental Result Codes from 5424 to 5449 are reserved for the TS	20 272
	DIAMETER ERROR USER NO NON 3GPP SUBSCRIPTI	J
5450	ON	29.273 [20]
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	20.270 [20]
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	

Note: The Exp	erimental Result Codes from 5453 to 5469 are reserved for the TS	\$ 29.273.				
5470						
Note: The Exp	Note: The Experimental Result Codes from 5471 to 5489 are reserved for the TS 29.215.					
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK	29.173 [25]				
Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 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

Det	TCO "	TOO D	00	D -	Change history	011	INI
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292			Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25	NP-040401			Correction of Charging application reference	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401		4	Removal of User Data Request Type AVP	6.0.0	6.1.0
	CN#25	NP-040412		1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26	NP-040579		4	Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12	CN#26	NP-040580		1	Reservation of command code 310	6.1.0	6.2.0
2004-12	CN#26	NP-040579 NP-040600		1	Addition of Gmb interface  Documenting the Reuse of the 3GPP specific application identifier	6.1.0	6.2.0
2004-12	CN#26			2	of Ro for Re on the Charging Interfaces	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047		1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039			Allocations for Gx interface	ļ	
		NP-050039			Allocations for Gmb interface	ļ	
		NP-050039			Allocations for MMS, MM10 Interface		
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.3.0	6.4.0
		CP-050196		1	Addition of Maximum-Number-Accesses AVP		
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.4.0	6.5.0
		CP-050310			Addition of Pr reference point to TS 29.230	ļ	
		CP-050310			Error code cleanup		
		CP-050310	0056		Addition of Rx ref. point and renaming of Experimental Result Codes		
2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-12	CT#30	CP-050624			Addition of GBA-Type AVP	7.0.0	7.1.0
		CP-050612			Additional Gmb AVP Allocation		
		CP-050612			Reservation of AVP codes for 32.299	İ	
		CP-050625			Management of Sh subscriptions	i	
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
		CP-060084			User-Data in the response to Sh-Subs-Notif		
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure		
2006-06	CT#32	CP-060302	0075		S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417	0077	3	New AVP Code	7.3.0	7.4.0
		CP-060417			Errors to be sent in response to Sh-Notif	Ī	
		CP-060417	0081		Definition of specific Diameter codes for DSAI		
2006-12	CT#34	CP-060566	0085	1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
		CP-060562			Addition of Diameter Error Code for Emergency Purposes	Ī	
	İ	CP-060555	0087		Allocation of new AVP codes for Gmb	Ī	
	Ì	CP-060555	0089		AVP code allocations for Rf and Ro interfaces	ĺ	
		CP-060566	0091		Allocation of Success Result Code Range for Gi Interface	Ī	
2007-03	CT#35	CP-070020	0093		C3 requested addition of new AVP code values to 3GPP TS 29.230	7.5.0	7.6.0
		CP-070020	0093		Allocation of new AVP code for DSAI-Tag AVP	Ī	
		CP-070020	0093		Allocation of Experimental-Result-Code AVP for Gi Interface		
2007-06	CT#36	CP-070318			Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312	0098		Experimental-Result-Codes for Gmb interface		
	<u> </u>	CP-070312	0100	L	Correction of Diameter AVP code allocation	L	
2007-09	CT#37	CP-070527	0102		Application ID for Gx protocol	7.7.0	7.8.0
2007-12	CT#38	CP-070743	0104		AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
			0105		Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol		
2007-12	CT#38	CP-070755	0101	4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
2001 12	01,700	0. 0.0.00	0103	i i	AVP code reservation for 32.299 in Rel-8	1 .0.0	0.0.0
2008-03	CT#39	CP-080015			Correction of reference to TS 29.140	8.0.0	8.1.0
	000	CP-080019			AVP code reservation for TS 32.299 in Rel-8	0.0.0	01110
2000 00					Wildcarded Public User Identities	i	
2000 00		TCP-080019				4	
2000 00		CP-080019 CP-080191		1	Correction on AVP code allocation reservation for TS 32.299 in		
2000 00		CP-080191	0112		Rel-7		
	OT#12	CP-080191 CP-080204	0112 0113		Rel-7 Correction on AVP code allocation reservation for TS 32.299	0.4.0	0.0.0
2008-06	CT#40	CP-080191 CP-080204 CP-080267	0112 0113 0117		Rel-7 Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-06 2008-09	CT#41	CP-080191 CP-080204 CP-080267 CP-080456	0112 0113 0117 0119	1	Rel-7 Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal	8.1.0 8.2.0	8.2.0 8.3.0
2008-06 2008-09 2008-09 2008-09		CP-080191 CP-080204 CP-080267	0112 0113 0117 0119 0121	1	Rel-7 Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx		

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0000 00	OT#44	OD 000400	0404		Assignment)		0.00
2008-09	CT#41 CT#42	CP-080463		_	New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
	,	CP-080691			Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691		1	Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044		1	Update for ReadyForSM	8.4.0	8.5.0
2009-03	CT#43	CP-090044		1	Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090026			Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033			Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	AVP codes for S9 protocol	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	Location of Permanent Failure result code range for the S9 application	8.4.0	8.5.0
2009-03	CT#43	CP-090024			AVPs for TS 29.273	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299	0129	4	Update of the AVP Codes	8.5.0	8.6.0
		CP-090299	0143		AVP code reservation for TS 32.299		
		CP-090299	0145		Diameter Command Codes for S6a/S6d/S13/S13"		
	ĺ		0146		Removal of Requesting Node Type from AIR		
	ĺ	CP-090299	0147		S6b Application ID		
2009-09	CT#45	CP-090530	0149		Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
	ĺ	CP-090530	0152		AVP code allocation for TS 29.212		
	ĺ	CP-090531	0150		Update of the AVP type for the User-Id		
	ĺ	CP-090531	0153		Trace Depth per session		
2009-09	CT#45	CP-090557	0148		AVP code range for charging	8.7.0	9.0.0
2009-12	CT#46	CP-090800	0154	1	ICS-Flag	9.0.0	9.1.0
		CP-091032	0156		From GMLC-Address to GMLC-Number		
			0160		Session-Priority AVP		
			0163	2	Introduction of SLh application related AVPs and Experimental Result codes		
			0166		Missing AVP error codes		
		CP-090797			Introduction of SLg application related AVPs and Application Identifier		
2010-03	CT#47	CP-100031		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	0169	1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109		
		CP-100046			Error codes in 29.172 for SLg		
		CP-100048		1	AVPs in 29.272 for TADS support		
		CP-100040			Error codes in 29.272 for Unknown MME		
		CP-100236		4	EPS Subcsriber State and Location Information Request		
		CP-100033			One time notification AVP allocation		
		CP-100046			Addition of the LCS-QoS-Class attribute value		
	1	CP-100175	0182		Introduction of the LCS-Capabilities-Sets AVP in SLh interface		

# History

Document history							
V9.1.0	January 2010	Publication					
V9.2.0	April 2010	Publication					