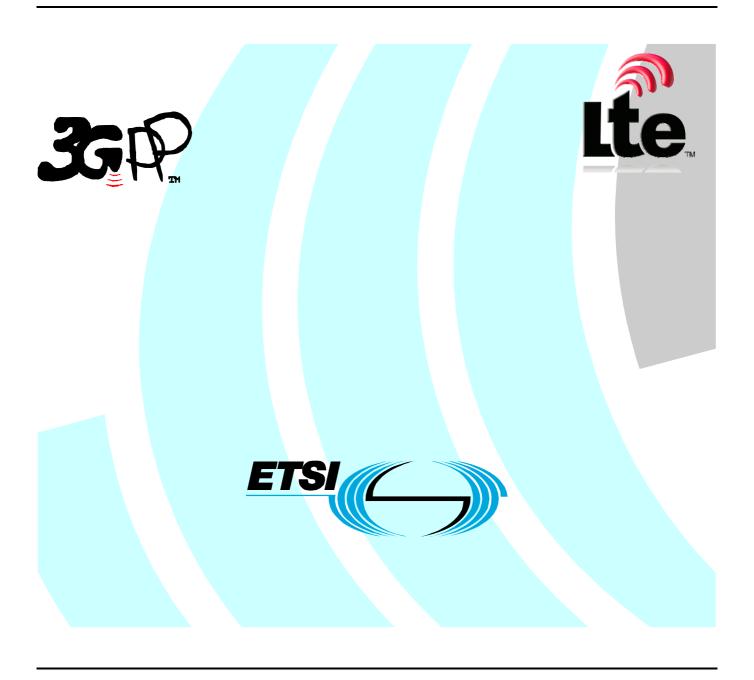
# ETSITS 129 230 V9.1.0 (2010-01)

Technical Specification

Digital cellular telecommunications system (Phase 2+);
Universal Mobile Telecommunications System (UMTS);
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Diameter applications;
3GPP specific codes and identifiers
(3GPP TS 29.230 version 9.1.0 Release 9)



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### Foreword

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Version x.y.z

#### where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- 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.* 

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

[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/S6d	29.272 [21]
16777252	3GPP S13/S13"	29.272 [21]
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]
XXXXXXXX	3GPP SLg	29.172 [24]
XXXXXXXX	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 Code	Attribute Name	Data Type	Specified in the 3GPP TS
	3GPP-WLAN-APN-Id	OctetString	29.234 [6]
Note:	The AVP codes from 1 to 255 are reserved for backwards compatik	oility with 3GPP RADIUS	Vendor Specific
Attribu	ites (See TS 29.061 [13])	•	·
Note:	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	
	WLAN- 3GPP-IP-Access	Enumerated	_
	APN-Authorized	Grouped	_
	APN-Id		_
	APN-Barring-Type	Enumerated	29.234 [6]
	WLAN-Direct-IP-Access	Enumerated	-
	Session-Request-Type	Enumerated	_
	Routing-Policy	IPFilterRule	_
	Max-Requested-Bandwidth	OctetString	
	Charging-Characteristics	Integer	1
	Charging-Nodes	Grouped	1
	Primary-OCS-Charging-Function-Name	DiameterIdentity	1
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	1
	3GPP-AAA-Server-Name	DiameterIdentity	_
	Maximum-Number-Accesses	Unsigned32	
Note:	The AVP codes from 320 to 399 are reserved for TS 29.23 GBA-UserSecSettings	OctedString	
	Transaction-Identifier	OctetString	-
	NAF-Hostname	OctetString	1
	GAA-Service-Identifier	OctedString	1
404	Key-ExpiryTime	Time	
405	ME-Key-Material	OctedString	
406	UICC-Key-Material GBA U-Awareness-Indicator	OctedString	
	BootstrapInfoCreationTime	Enumerated Time	+
	GUSS-Timestamp	Time	29.109 [7]
410	GBA-Type	Enumerated	
411	UE-Id	OctectString	
412	UE-Id-Type	Enumerated	
413	UICC-App-Label	OctectString	
	UICC-ME Requested-Key-Lifetime	Enumerated Time	_
416	Private-Identity-Request	Enumerated	-
	GBA-Push-Info	OctectString	1
	NAF-SA-Identifier	OctectString	
	The AVP codes from 419 to 499 are reserved for TS 29.109		
	Abort-Cause	Enumerated	
501	Access-Network-Charging-Address	Address	]
	Access-Network-Charging-Identifier	Grouped	
503	Access-Network-Charging-Identifier-Value	OctetString	
504	AF-Application-Identifier	OctetString	]
	AF-Charging-Identifier	OctetString	20 200 [0]
	Authorization-Token	OctetString	29.209 [8], 29.211 [17]
507	Flow-Description	IPFilterRule	23.211[11]
	Flow-Grouping	Grouped	]
	Flow-Number	Unsigned32	_
	Flows	Grouped	_
	Flow-Status	Enumerated	]
512	Flow-Usage	Enumerated	

Stif   Max-Requested-Bandwidth-DL	629 630 631	Supported-Features Feature-List-ID Feature-List Supported-Applications	Grouped Unsigned32 Unsigned32 Grouped	
Since   Max-Requested-Bandwidth-UL	629 630 631	Supported-Features Feature-List-ID Feature-List Supported-Applications	Grouped Unsigned32 Unsigned32 Grouped	
Single   S	629 630	Supported-Features Feature-List-ID Feature-List	Grouped Unsigned32 Unsigned32	
Secondary	629	Supported-Features Feature-List-ID	Grouped Unsigned32	
Server-Name		Supported-Features	Grouped	- - -
Server-Capabilities   Grouped	628			-
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516     Max-Requested-Bandwidth-UL     Unsigned32       517     Media-Component-Description     Grouped       518     Media-Component-Number     Unsigned32       519     Media-Sub-Component AVP     Grouped       520     Media-Type     Enumerated       521     RR-Bandwidth     Unsigned32       522     RS-Bandwidth     Unsigned32       523     SIP-Forking-Indication     Enumerated       Note: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211     OctetString       600     Visited-Network-Identifier     OctetString       601     Public-Identity     UTF8String       602     Server-Name     UTF8String       603     Server-Capabilities     Grouped       604     Mandatory-Capability     Unsigned32       605     Optional-Capability     Unsigned32       606     User-Data     OctetString       607     SIP-Number-Auth-Items     Unsigned32       608     SIP-Authentication-Scheme     UTF8String       609     SIP-Authentication-Context     OctetString       610     SIP-Auth-Data-Item     Grouped       611     SIP-Auth-Data-Item     Grouped       612     SIP-Auth-Data-Item     Grouped       613     Deregistration-Reason				
516     Max-Requested-Bandwidth-UL     Unsigned32       517     Media-Component-Description     Grouped       518     Media-Component-Number     Unsigned32       519     Media-Sub-Component AVP     Grouped       520     Media-Type     Enumerated       521     RR-Bandwidth     Unsigned32       523     SIP-Forking-Indication     Enumerated       Note: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211     OctetString       601     Visited-Network-Identifier     OctetString       602     Server-Name     UTF8String       603     Server-Capabilities     Grouped       604     Mandatory-Capability     Unsigned32       605     Optional-Capability     Unsigned32       606     User-Data     OctetString       607     SIP-Number-Auth-Items     Unsigned32       608     SIP-Authentication-Scheme     UTF8String       609     SIP-Authentication     OctetString       610     SIP-Authentication-Context     OctetString       611     SIP-Authentication-Context     OctetString       612     SIP-Authentication-Reason     Grouped       613     SIP-Item-Number     Unsigned32       614     Server-Assignment-Type     Enumerated       615				4
516     Max-Requested-Bandwidth-UL     Unsigned32       517     Media-Component-Description     Grouped       518     Media-Component-Number     Unsigned32       519     Media-Sub-Component AVP     Grouped       520     Media-Type     Enumerated       521     RR-Bandwidth     Unsigned32       522     RS-Bandwidth     Unsigned32       523     SIP-Forking-Indication     Enumerated       Note: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211       600     Visited-Network-Identifier     OctetString       601     Public-Identity     UTF8String       602     Server-Name     UTF8String       603     Server-Capabilities     Grouped       604     Mandatory-Capability     Unsigned32       605     Optional-Capability     Unsigned32       606     User-Data     OctetString       607     SIP-Authentication-Scheme     UTF8String       608     SIP-Authentication-Scheme     UTF8String       609     SIP-Authentication     OctetString       610     SIP-Authentication-Context     OctetString       611     SIP-Auth-Data-Item     Grouped       613     SIP-Item-Number     Unsigned32       614     Server-Assignment-Type     Enumerate				1
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516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumeratedNote: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211600Visited-Network-IdentifierOctetString601Public-IdentityUTF8String602Server-NameUTF8String603Server-CapabilitiesGrouped604Mandatory-CapabilityUnsigned32605Optional-CapabilityUnsigned32606User-DataOctetString607SIP-Number-Auth-ItemsUnsigned32608SIP-Authentication-SchemeUTF8String609SIP-AuthenticationOctetString610SIP-AuthenticationOctetString611SIP-Authentication-ContextOctetString612SIP-Auth-Data-ItemGrouped613SIP-Item-NumberUnsigned32614Server-Assignment-TypeEnumerated615Deregistration-ReasonGrouped616Reason-CodeEnumerated				
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516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumeratedNote: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211600Visited-Network-IdentifierOctetString601Public-IdentityUTF8String602Server-NameUTF8String603Server-CapabilitiesGrouped604Mandatory-CapabilityUnsigned32605Optional-CapabilityUnsigned32606User-DataOctetString607SIP-Number-Auth-ItemsUnsigned32608SIP-Authentication-SchemeUTF8String609SIP-AuthenticateOctetString610SIP-AuthorizationOctetString611SIP-Auth-Data-ItemGrouped613SIP-Auth-Data-ItemGrouped613SIP-Hem-NumberUnsigned32614Server-Assignment-TypeEnumerated				1
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumeratedNote: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211600Visited-Network-IdentifierOctetString601Public-IdentityUTF8String602Server-NameUTF8String603Server-CapabilitiesGrouped604Mandatory-CapabilityUnsigned32605Optional-CapabilityUnsigned32606User-DataOctetString607SIP-Number-Auth-ItemsUnsigned32608SIP-Authentication-SchemeUTF8String609SIP-AuthenticationOctetString610SIP-AuthorizationOctetString611SIP-Authentication-ContextOctetString612SIP-Authentication-ContextOctetString613SIP-Authentication-DunberOctetString613SIP-Item-NumberUnsigned32			Grouped	
516       Max-Requested-Bandwidth-UL       Unsigned32         517       Media-Component-Description       Grouped         518       Media-Component-Number       Unsigned32         519       Media-Sub-Component AVP       Grouped         520       Media-Type       Enumerated         521       RR-Bandwidth       Unsigned32         522       RS-Bandwidth       Unsigned32         523       SIP-Forking-Indication       Enumerated         Note: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211       OctetString         601       Visited-Network-Identifier       OctetString         601       Public-Identity       UTF8String         602       Server-Name       UTF8String         603       Server-Capabilities       Grouped         604       Mandatory-Capability       Unsigned32         605       Optional-Capability       Unsigned32         606       User-Data       OctetString         607       SIP-Number-Auth-Items       Unsigned32         608       SIP-Authentication-Scheme       UTF8String         609       SIP-Authentication       OctetString         611       SIP-Authentication-Context       OctetString <td< td=""><td></td><td></td><td></td><td></td></td<>				
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumeratedNote: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211600Visited-Network-IdentifierOctetString601Public-IdentifyUTF8String602Server-NameUTF8String603Server-CapabilitiesGrouped604Mandatory-CapabilityUnsigned32605Optional-CapabilityUnsigned32606User-DataOctetString607SIP-Number-Auth-ItemsUnsigned32608SIP-Authentication-SchemeUTF8String609SIP-Authentication-SchemeUTF8String610SIP-AuthenticationOctetString611SIP-Authentication-ContextOctetString612SIP-Auth-Data-ItemGrouped			·	4
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumeratedNote: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211600Visited-Network-IdentifierOctetString601Public-IdentityUTF8String602Server-NameUTF8String603Server-CapabilitiesGrouped604Mandatory-CapabilityUnsigned32605Optional-CapabilityUnsigned32606User-DataOctetString607SIP-Number-Auth-ItemsUnsigned32608SIP-Authentication-SchemeUTF8String609SIP-Authentication-SchemeUTF8String609SIP-Authentication-SchemeUTF8String610SIP-AuthenticationOctetString611SIP-Authentication-ContextOctetString				
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumeratedNote: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211600Visited-Network-IdentifierOctetString601Public-IdentityUTF8String602Server-NameUTF8String603Server-CapabilitiesGrouped604Mandatory-CapabilityUnsigned32605Optional-CapabilityUnsigned32606User-DataOctetString607SIP-Number-Auth-ItemsUnsigned32608SIP-Authentication-SchemeUTF8String609SIP-Authentication-SchemeUTF8String609SIP-AuthenticationOctetString610SIP-AuthorizationOctetString				
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516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumeratedNote: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211600Visited-Network-IdentifierOctetString601Public-IdentityUTF8String602Server-NameUTF8String603Server-CapabilitiesGrouped604Mandatory-CapabilityUnsigned32605Optional-CapabilityUnsigned32606User-DataOctetString607SIP-Number-Auth-ItemsUnsigned32608SIP-Authentication-SchemeUTF8String609SIP-Authentication-SchemeUTF8String609SIP-AuthenticateOctetString				-
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumeratedNote: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211600Visited-Network-IdentifierOctetString601Public-IdentityUTF8String602Server-NameUTF8String603Server-CapabilitiesGrouped604Mandatory-CapabilityUnsigned32605Optional-CapabilityUnsigned32606User-DataOctetString607SIP-Number-Auth-ItemsUnsigned32608SIP-Authentication-SchemeUTF8String				†
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumeratedNote: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211600Visited-Network-IdentifierOctetString601Public-IdentityUTF8String602Server-NameUTF8String603Server-CapabilitiesGrouped604Mandatory-CapabilityUnsigned32605Optional-CapabilityUnsigned32606User-DataOctetString607SIP-Number-Auth-ItemsUnsigned32				1
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumeratedNote: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211600Visited-Network-IdentifierOctetString601Public-IdentityUTF8String602Server-NameUTF8String603Server-CapabilitiesGrouped604Mandatory-CapabilityUnsigned32605Optional-CapabilityUnsigned32606User-DataOctetString				1
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumeratedNote: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211600Visited-Network-IdentifierOctetString601Public-IdentityUTF8String602Server-NameUTF8String603Server-CapabilitiesGrouped604Mandatory-CapabilityUnsigned32605Optional-CapabilityUnsigned32				1
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumeratedNote: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211600Visited-Network-IdentifierOctetString601Public-IdentityUTF8String602Server-NameUTF8String603Server-CapabilitiesGrouped604Mandatory-CapabilityUnsigned32				1
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumeratedNote: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211600Visited-Network-IdentifierOctetString601Public-IdentityUTF8String602Server-NameUTF8String603Server-CapabilitiesGrouped				1
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumeratedNote: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211600Visited-Network-IdentifierOctetString601Public-IdentityUTF8String602Server-NameUTF8String				1
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516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumeratedNote: The AVP codes from 524 to 599 are reserved for TS 29.209 and TS 29.211600Visited-Network-IdentifierOctetString601Public-IdentityUTF8String				
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516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32523SIP-Forking-IndicationEnumerated				
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32522RS-BandwidthUnsigned32				
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated521RR-BandwidthUnsigned32			ŭ	4
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped520Media-TypeEnumerated				4
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32519Media-Sub-Component AVPGrouped				1
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped518Media-Component-NumberUnsigned32				-
516Max-Requested-Bandwidth-ULUnsigned32517Media-Component-DescriptionGrouped				+
516 Max-Requested-Bandwidth-UL Unsigned32			· ·	1
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I 515 IMay-Requested-Bandwidth-DI				1
				-
513Specific-ActionEnumerated514Max-Requested-BandwidthUnsigned32				-

	MSISDN	OctetString	
	User-Data	OctetString	
	Data-Reference	Enumerated	
	Service-Indication	OctetString	
	Subs-Req-Type	Enumerated	
	Requested-Domain	Enumerated	
	Current-Location	Enumerated	
	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	
Note:	The AVP codes from 711 to799 are reserved for TS 29.329.		
			32.299 [5]
	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	
846 847	CG-Address GGSN-Address	Address Address	
848			20 064 [42]
849	Served-Party-IP-Address Authorized-QoS	Address UTF8String	29.061 [13]
850	Application-Server-Information	Grouped	
	Trunk-Group-Id	Grouped	
851 852	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-Controlling-Address 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	
868	Time-Quota-Threshold	Unsigned32	
869	Volume-Quota-Threshold	Unsigned32	
870	Trigger-Type	Enumerated	
871	Quota-Holding-Time	Unsigned32	
872	Reporting-Reason	Enumerated	
873	Service-Information	Grouped	
5,0	Solvios iniciliadon	Sidapou	

	50.1.4		
874	PS-Information 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	
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	
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	
900	TMGI	OctectString	
901	Required-MBMS-Bearer-Capabilities	UTF8String	
	MBMS-StartStop-Indication	Enumerated	
	MBMS-Service-Area	OctectString	
	MBMS-Session-Duration	Unsigned32	
	Alternative-APN	UTF8String	
906	MBMS-Service-Type	Enumerated	
907	MBMS-2G-3G-Indicator	Enumerated	
908	MBMS-Session-Identity	OctetString	
909		UTF8String	
	Additional-MBMS-Trace-Info	OctetString	
	MBMS-Time-To-Data-Transfer	Unsigned32	
	MBMS-Session-Identity-Repetition-Number	Unsigned32	
	MBMS-Required-QoS	UTF8String	
914	MBMS-Counting-Information	Enumerated	
915	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  MBMS-BMSC-SSM-IPv6-Address		
		UTF8String	
	The AVP codes from 920 to 999 are reserved for TS 29.061		
	Bearer-Usage	Enumerated	
	Charging-Rule-Install	Grouped	
1002	Charging-Rule-Remove	Grouped	
	Charging-Rule-Definition	Grouped	
	Charging-Rule-Base-Name	UTF8String	
	Charging-Rule-Dase-Name	OctetString	
	Event-Trigger	Enumerated	
	Metering-Method	Enumerated	
	Offline	Enumerated	29.212 [19]
	Online	Enumerated	20.2 [2]
	Precedence	Unsigned32	
	Reporting-Level	Enumerated	
	TFT-Filter	IPFilterRule	
	TFT-Packet-Filter-Information	Grouped	
	ToS-Traffic-Class	OctetString	
1016	QoS-Information	Grouped	
	Observation Deals Demonstra	Grouped	
	Charging-Rule-Report PCC-Rule-Status	Groupeu	

	Bearer-Identifier	OctetString	
	Bearer-Operation	Enumerated	
	Access-Network-Charging-Identifier-Gx	Grouped	
	Bearer-Control-Mode	Enumerated	
	Network-Request-Support	Enumerated	
	Guaranteed-Bitrate-DL	Unsigned32	
	Guaranteed-Bitrate-UL	Unsigned32	
	IP-CAN-Type	Enumerated	
	QoS-Class-Identifier	Enumerated	
	QoS-Negotiation	Enumerated	
	QoS-Upgrade	Enumerated	
1031	Rule-Failure-Code	Enumerated	
1032	RAT-Type	Enumerated	
1033	Event-Report-Indication	Grouped	
1034	Allocation-Retention-Priority	Grouped	
1035	CoA-IP-Address	Address	
1036	Tunnel-Header-Filter	IPFilterRule	
	Tunnel-Header-Length	Unsigned32	
	Tunnel-Information	Grouped	
	CoA-Information	Grouped	
	APN-Aggregate-Max-Bitrate-DL	Unsigned32	
	APN-Aggregate-Max-Bitrate-UL	Unsigned32	
	Revalidation-Time	Time	
	Rule-Activation-Time	Time	
	Rule-DeActivation-Time	Time	
	Session-Release-Cause	Enumerated	
	Priority-Level	Unsigned32	
	Pre-emption-Capability	Enumerated	
	Pre-emption-Vulnerability	Enumerated	
	Default-EPS-Bearer-QoS		
	AN-GW-Address	Grouped Address	
	QoS-Rule-Install	Grouped	
	QoS-Rule-Remove	Grouped	
	QoS-Rule-Definition	Grouped	
	QoS-Rule-Name	OctetString	
	QoS-Rule-Report	Grouped	
	Security-Parameter-Index	IPFilterRule	
	Flow-Label	OctetString	
	Flow-Information	Grouped	
	Packet-Filter-Content	IPFilterRule	
	Packet-Filter-Identifier	OctetString	
1061	Packet-Filter-Information	Grouped	
	Packet-Filter-Operation	Enumerated	
	Resource-Allocation-Notification	Enumerated	
Note:	The AVP codes from 1064 to 1099 are reserved for TS 29.212		
1100	Served-User-Identity	Groupe	
	VASP-ID	UTF8Str	
	VAS-ID	UTF8Str	
	Trigger-Event	Enumer	
	Sender-Address	UTF8Str	
	Initial-Recipient-Address	Groupe	
	Result-Recipient-Address	Groupe	
	Sequence-Number	Unsigne	
	Recipient-Address	UTF8Str	
	Routeing-Address	UTF8Str	29.140 [16]
	Originating-Interface	Enumer	20.170 [10]
	Delivery-Report	Enumer	
	Read-Reply	Enumer	
	Sender-Visibility	Enumer	
	Service-Key	UTF8Str	
	Billing-Information	UTF8Str	
	Status	Group	
	Status-Code	UTF8Str	
	Status-Text	UTF8Str	
Note:	The AVP codes from 1119 to 1199 are reserved for TS 29.140		

1200 Domain-Name	UTF8String	
1201 Recipient-Address	Grouped	
1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size	Unsigned32	
1207 Additional-Content-Information	Grouped	
1208 Addressee-Type	Enumerated	
1209 Priority	Enumerated	
1210 Message-ID	UTF8String	
1211 Message-Type	Enumerated	
1212 Message-Size	Unsigned32	
1213 Message-Class	Grouped	
1214 Class-Identifier	Enumerated	
1215 Token-Text	UTF8String	
1216 Delivery-Report-Requested	Enumerated	
1217 Adaptations	Enumerated	
1218 Applic-ID	UTF8String	
1219 Aux-Applic-Info	UTF8String	
1220 Content-Class	Enumerated	
1221 DRM-Content	Enumerated	
1222 Read-Reply-Report-Requested	Enumerated	
1223 Reply-Applic-ID	UTF8String	
1224 File-Repair-Supported	Enumerated	
1225 MBMS-User-Service-Type	Enumerated	
1226 Unit-Quota-Threshold	Unsigned32	
1227 PDP-Address	Address	
1228 SGSN-Address	Address	
1229 PoC-Session-Id	UTF8String	
1230 Deferred-Location-Even-Type	UTF8String	
1231 LCS-Client-Name	UTF8String	
1232 LCS-Client-Id	Grouped	32.299 [5]
1233 LCS-Client-Dialed-By-MS	UTF8String	32.233 [3]
1234 LCS-Client-External-ID	UTF8String	
1235 LCS-Client-External-ID		
	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-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-info-Units	Enumerated	
1255 Talk-Burst-Exchange	Grouped	
1256 Service-Generic-Information	Grouped	
1257 Service-Specific-Type	Unsigned32	
1258 Event-Charging-TimeStamp	Time	
1259 Participant-Access-Priority	Enumerated	
1260 Participant-Group	Grouped	
1261 PoC-Change-Conditions	Enumerated	
1 120 FIFUC-CHANGE-CONGIUNS		
1262 PoC-Change-Time	Time	

1,650   caste-film-interval   1,65	1265 Dago Timo Interval	Linnian od 22	
1267   Envelope-End-Time	1265 Base-Time-Interval	Unsigned32	
1266   Envelope-Reporting			
1205   Envelope-Start-Time		-	
		1	
1271   Time-Quota-Type			
1272   Early-Media-Description   Grouped   1273   SDP-TimeStamps   Grouped   1274   SDP-Ofter-TimeStamp   Time   1275   SDP-Answer-Timestamp   Time   1276   AF-Correlation-Information   Grouped   1278   Company   Grouped   1278   Offline Charging   Grouped   1279   Offline Charging   Grouped   1278   Offline Charging   Grouped   1278   Offline Charging   Grouped   1278   User-Participating-Type   Enumerated   1278   Offline Charging   Grouped   1278   User-Participating-Type   Enumerated   1278   Offline Charging   Grouped   1278   User-Participating-Type   Enumerated   1278   Milw-Communication-Service-Identitior   UTF85tring   1280   Niterrate-Charged-Party-Address   UTF85tring   1281   Milw-Communication-Service-Identitior   UTF85tring   1282   Number-Of-Talk-Bursts   Unsigned32   1283   Roceived-Talk-Burst-Time   Unsigned32   1286   Talk-Burst-Volume   Unsigned32   1286   Talk-Burst-Time   Unsigned32   1287   Talk-Burst-Volume   Unsigned32   1288   Media-Initiator-Party   Unsigned32   1400   Subscription-Data   Unsigned32   1401   UR-Flags   Unsigned32   1402   UR-Flags   Unsigned32   1407   Vicited PLMN Id   OctetString   1410   UR-Flags   Unsigned32   1407   Vicited PLMN Id   OctetString   1411   Re-Syntronization-Initio   OctetString   1412   UR-Flags   Unsigned32   1407   Vicited PLMN Id   OctetString   1413   Authentication-Initio   OctetString   1414   Unsigned32   Unsigned32   1425   Operator-Oregousted-Vectors   Grouped   1416   Unsigned32   Unsigned32   1426   Occepted   Unsigned32   Unsigned32   1427   APN-Ortifiguration-Profile   Grouped   1428   Company   Unsigned32   Unsigned32   1429   OctetString   Unsigned32   Unsigned32   Unsigned32			
1273 SDP-TimeStamp			
1274   SDP-Offer-Timestamp			
1275   SDP-Answer-Timestamp   Time   Time			
1276   AF-Correlation-Information   Grouped		_	
1277   POC-Session-Initiation-type			
1278   Offline-Charging   Grouped		-	
1279   User-Participating-Type			
1280   Alternate-Charged-Party-Address		-	
1281   IMS-Communication-Service-Identifier			
1282   Number-Of-Received-Talk-Bursts			
1283   Number-Of-Talk-Burst   Unsigned32   1284   Received-Talk-Burst-Volume   Unsigned32   1286   Received-Talk-Burst-Volume   Unsigned32   1286   Talk-Burst-Volume   Unsigned32   1287   Talk-Burst-Volume   Unsigned32   1288   Talk-Burst-Volume   Unsigned32   1288   Media-Initiator-Party   UTF8String   UTF8String   UNSIGNED			
1284   Received-Talk-Burst-Volume			
1285   Received-Talk-Burst-Volume			
1286   Talk-Burst-Time			
1287   Talk-Burst-Volume			
1288   Media-Initiator-Party   UTF8String   Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299   1400   Subscription-Data   Grouped   1401   Terminal-Information   Grouped   1402   IME   UTF8String   UTF8String   1402   IME   UTF8String   UTF8String   1404   QoS-Subscribed   UTF8String   UTF8String   1404   UAF-Riags   Unsigned32   1406   ULA-Flags   Unsigned32   1406   ULA-Flags   Unsigned32   1407   Visited PLMN Id   OctetString   OctetString   1408   Requested-EUTRAN-Authentication-Info   Grouped   1409   Requested-EUTRAN-Authentication-Info   Grouped   1410   Number-Of-Requested-Vectors   Unsigned32   1411   Re-Synchronization-Info   Grouped   1412   Immediate-Response-Preferred   Unsigned32   1413   Authentication-Info   Grouped   1414   E-UTRAN-Vector   Grouped   1415   UTRAN-Vector   Grouped   1416   GERAN-Vector   Grouped   1417   Network-Access-Mode   Enumerated   1418   HPLMN-ODB   Enumerated   1419   Item-Number   Unsigned32   1420   Cancellation-Type   Enumerated   1412   DSR-Flags   Unsigned32   1422   DSA-Flags   Unsigned32   1423   Context-Identifier   Unsigned32   1423   Context-Identifier   Unsigned32   1424   Subscriber-Status   Enumerated   1425   Operator-Determined-Barring   Unsigned32   1426   Operator-Determined-Barring   Unsigned32   1427   APN-Configurations-Included-Indicator   Enumerated   1428   APN-Configurations-Included-Indicator   Enumerated   1429   APN-Configurations-Included-Indicator   Enumerated   1430   APN-Configurations-Included-Indicator   Enumerated   1431   IPS Subscribed-QoS-Profile   Grouped   1431   IPS Subscription-Data			
Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299			
1400   Subscription-Data		UTF8String	
1401   Terminal-Information		<del>,                                      </del>	
1402   ME			
1403   Software-Version			
1404   QoS-Subscribed   UTF8String   1405   ULR-Flags   Unsigned32   1406   ULR-Flags   Unsigned32   1406   ULR-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   1415   UTRAN-Vector   Grouped   1416   GERAN-Vector   Grouped   1417   Network-Access-Mode   Enumerated   1418   HPLMN-ODB   Enumerated   1419   Item-Number   Unsigned32   1420   Cancellation-Type   Enumerated   1421   DSR-Flags   Unsigned32   1422   DSA-Flags   Unsigned32   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   1427   APN-Oi-Replacement   UTF8String   1428   All-APN-Configurations-Included-Indicator   Enumerated   1429   APN-Configurations-Profile   Grouped   1430   APN-Configurations-Profile   Grouped   1431   EPS-Subscribed-QoS-Profile   Grouped   1432   VPLMN-Dynamic-Address-Allowed   Enumerated   1433   APN-Configuration-Profile   Grouped   1434   Alert-Reason   Enumerated   1435   AMBR   Grouped   1436   AMBR   Grouped   1437   CSG-Id   Unsigned32   1438   APN-Canfiguration-Profile   Grouped   1436   AMBR   Grouped   1437   CSG-Id   Unsigned32   1438   APN-Canfiguration-Profile   Grouped   1436   AMBR   Grouped   1437   CSG-Id   Unsigned32   1438   APN-Canfiguration-Profile   Grouped   1438   APN-Ca			
1405   ULR-Flags			
1406   ULA-Flags	1404 QoS-Subscribed	UTF8String	
1407   Visited PLMN   Id   Requested-EUTRAN-Authentication-Info   Grouped     1408   Requested-UTRAN-GERAN-Authentication-Info   Grouped     1410   Number-Of-Requested-Vectors   Unsigned32     1411   Re-Synchronization-Info   OctetString     1412   Immediate-Response-Preferred   Unsigned32     1413   Authentication-Info   Grouped     1414   E-UTRAN-Vector   Grouped     1415   UTRAN-Vector   Grouped     1416   GERAN-Vector   Grouped     1417   Network-Access-Mode   Enumerated     1418   HPLMN-ODB   Enumerated     1419   Item-Number   Unsigned32     1420   Cancellation-Type   Enumerated     1421   DSR-Flags   Unsigned32     1422   DSA-Flags   Unsigned32     1423   Context-Identifier   Unsigned32     1424   Subscriber-Status   Enumerated     1425   Operator-Determined-Barring   Unsigned32     1426   Access-Restriction-Data   UTF8String     1427   APN-OI-Replacement   UTF8String     1428   All-APN-Configuration-Profile   Grouped     1430   APN-Configuration-Profile   Grouped     1431   EPS-Subscribed-QoS-Profile   Grouped     1432   Context-Identification   Grouped     1433   APN-Son   Enumerated     1434   All-Reason   Enumerated     1435   AMBR   Grouped     1436   CSG-Subscription-Data   Grouped     1437   CSG-Id   Unsigned32     1438   PDN-GW-Allocation-Type   Enumerated     1439   Level -	1405 ULR-Flags	Unsigned32	
1408   Requested-EUTRAN-Authentication-Info   Grouped     1409   Requested-UTRAN- GERAN-Authentication-Info   Grouped     1410   Number-Of-Requested-Vectors   Unsigned32     1411   Re-Synchronization-Info   OctetString     1412   Immediate-Response-Preferred   Unsigned32     1413   Authentication-Info   Grouped     1414   E-UTRAN-Vector   Grouped     1415   UTRAN-Vector   Grouped     1416   GERAN-Vector   Grouped     1417   Network-Access-Mode   Enumerated     1418   HPLMN-ODB   Enumerated     1419   Item-Number   Unsigned32     1420   Cancellation-Type   Enumerated     1421   DSR-Flags   Unsigned32     1422   DSA-Flags   Unsigned32     1423   Context-Identifier   Unsigned32     1424   Subscriber-Status   Enumerated     1425   Operator-Determined-Barring   Unsigned32     1426   Access-Restriction-Data   UTF8String     1427   APN-O-Replacement   UTF8String     1428   All-APN-Configuration-Profile   Grouped     1430   APN-Configuration-Profile   Grouped     1431   EPS-Subscribed-QoS-Profile   Grouped     1432   APN-Dynamic-Address-Allowed   Enumerated     1433   AMBR   Grouped     1434   Alert-Reason   Enumerated     1435   AMBR   Grouped     1436   All-Re-Asson   Enumerated     1437   CSG-Id   Unsigned32     1438   PDN-GW-Allocation-Type   Enumerated     1439   Enumerated   Unsigned32   Enumerated     1430   Enumerated   Unsigned32   Enumerated     1431   ERS-Subscripton-Data   Unsigned32   Enumerated     1432   Enumerated   Unsigned32   Enumerated     1433   Enumerated   Unsigned32   Enu	1406 ULA-Flags	Unsigned32	
1409   Requested-UTRAN- GERAN-Authentication-Info   Grouped   1410   Number-Of-Requested-Vectors   Unsigned32   1411   Re-Synchronization-Info   OctetString   1412   Immediate-Response-Preferred   Unsigned32   1413   Authentication-Info   Grouped   1414   E-UTRAN-Vector   Grouped   1415   UTRAN-Vector   Grouped   1416   GERAN-Vector   Grouped   1417   Network-Access-Mode   Enumerated   1418   HPLMN-ODB   Enumerated   1419   Item-Number   Unsigned32   1420   Cancellation-Type   Enumerated   1412   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-Ol-Replacement   UTF8String   1428   Ali-APN-Configurations-Included-Indicator   Enumerated   1430   APN-Configuration-Profile   Grouped   1431   EPS-Subscribed-QoS-Profile   Grouped   1431   EPS-Subscribed-QoS-Profile   Grouped   1432   APN-Configuration   Grouped   1433   STN-SR   OctetString   1434   Alert-Reason   Enumerated   Grouped   1435   AMBR   Grouped   1436   AGS-G-Subscription-Data   Grouped   1436   AGS-G-Subscription-Data   Grouped   1437   CSG-Id   Unsigned32   1438   PDN-GW-Allocation-Type   Enumerated   Unsigned32   1439   PDM-GW-Allocation-Type   Enumerated   Unsigned32   1439   PDM-GW-Allocation-Type   Enumerated   Unsigned32   1439   PDM-GW-Allocation-Type   Enumerated   Unsigned32   143	1407 Visited PLMN Id	OctetString	
1410   Number-Of-Requested-Vectors   Unsigned32   1411   Re-Synchronization-Info   OctetString   Unsigned32   1413   Authentication-Info   Grouped   Unsigned32   1413   Authentication-Info   Grouped   1414   E-UTRAN-Vector   Grouped   1415   UTRAN-Vector   Grouped   1415   UTRAN-Vector   Grouped   1417   Network-Access-Mode   Enumerated   1418   HPLMN-ODB   Enumerated   1419   Item-Number   Unsigned32   1420   Cancellation-Type   Enumerated   1412   DSR-Flags   Unsigned32   1421   DSR-Flags   Unsigned32   1422   DSA-Flags   Unsigned32   1423   Context-Identifier   Unsigned32   1424   Subscriber-Status   Enumerated   UTF8String   1425   Operator-Determined-Barring   Unsigned32   1426   Access-Restriction-Data   UTF8String   1427   APN-Onfiguration-Profile   Grouped   1430   APN-Configuration-Profile   Grouped   1431   EPS-Subscribed-QoS-Profile   Grouped   1432   VPLMN-Dynamic-Address-Allowed   Enumerated   1434   Allert-Reason   Enumerated   1435   AMBR   Grouped   1436   CSG-Subscription-Data   Grouped   1437   CSG-Id   Unsigned32   1438   PDN-GW-Allocation-Type   Enumerated   1439   PDN-GW-Allocation-Type   Enumerated   1430   PDN-GW-Allocation-Type   Enumerated   1430	1408 Requested-EUTRAN-Authentication-Info	Grouped	
1411   Re-Synchronization-Info   OctetString   1412   Immediate-Response-Preferred   Unsigned32   1413   Authentication-Info   Grouped   1414   E-UTRAN-Vector   Grouped   1415   UTRAN-Vector   Grouped   1415   UTRAN-Vector   Grouped   1416   GERAN-Vector   Grouped   1417   Network-Access-Mode   Enumerated   1418   HPLMN-ODB   Enumerated   1419   Item-Number   Unsigned32   1420   Cancellation-Type   Enumerated   1421   DSR-Flags   Unsigned32   1422   DSA-Flags   Unsigned32   1423   Context-Identifier   Unsigned32   1424   Subscriber-Status   Enumerated   1425   Operator-Determined-Barring   Unsigned32   1426   Access-Restriction-Data   UTF8String   1427   APN-Ol-Replacement   UTF8String   1428   All-APN-Configurations-Included-Indicator   Enumerated   1430   APN-Configuration-Profile   Grouped   1431   EPS-Subscribed-QoS-Profile   Grouped   1431   EPS-Subscribed-QoS-Profile   Grouped   1433   STN-SR   OctetString   1434   Alert-Reason   Enumerated   Grouped   1435   AMBR   Grouped   1436   CSG-Subscription-Data   Grouped   1437   CSG-Id   Unsigned32   1438   PDN-GW-Allocation-Type   Enumerated   1439   PDM-GW-Allocation-Type   Enumerated   1439   PDM-GW-Allocation-Type   Enumerated   1430   PDM-GW-Allocation-Type	1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped	
Immediate-Response-Preferred	1410 Number-Of-Requested-Vectors	Unsigned32	
Authentication-Info   Grouped	1411 Re-Synchronization-Info	OctetString	
1414         E-UTRAN-Vector         Grouped           1415         UTRAN-Vector         Grouped           1416         GERAN-Vector         Grouped           1417         Network-Access-Mode         Enumerated           1418         HPLMN-ODB         Enumerated           1419         Item-Number         Unsigned32           1420         Cancellation-Type         Enumerated           1421         DSR-Flags         Unsigned32           1422         DSA-Flags         Unsigned32           1423         Context-Identifier         Unsigned32           1424         Subscriber-Status         Enumerated           1425         Operator-Determined-Barring         Unsigned32           1426         Access-Restriction-Data         UTF8String           1427         APN-Col-Replacement         UTF8String           1428         All-APN-Configuration-Included-Indicator         Enumerated           1429         APN-Configuration         Grouped           1430         APN-Configuration         Grouped           1431         EPS-Subscribed-QoS-Profile         Grouped           1433         STN-SR         OctetString           1434         Alert-Reason         Enumerated <td>1412 Immediate-Response-Preferred</td> <td>Unsigned32</td> <td></td>	1412 Immediate-Response-Preferred	Unsigned32	
1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-Ol-ReplacementUTF8String1428All-APN-Configurations-Included-IndicatorEnumerated1429APN-Configuration-ProfileGrouped1430APN-ConfigurationGrouped1431EPS-Subscribed-QoS-ProfileGrouped1432VPLMN-Dynamic-Address-AllowedEnumerated1433STN-SROctetString1434Alert-ReasonEnumerated1435AMBRGrouped1436CSG-Subscription-DataGrouped1437CSG-IdUnsigned321438PDN-GW-Allocation-TypeEnumerated	1413 Authentication-Info	Grouped	
1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-Ol-ReplacementUTF8String1428All-APN-Configurations-Included-IndicatorEnumerated1429APN-Configuration-ProfileGrouped1430APN-ConfigurationGrouped1431EPS-Subscribed-QoS-ProfileGrouped1432VPLMN-Dynamic-Address-AllowedEnumerated1433STN-SROctetString1434Alert-ReasonEnumerated1435AMBRGrouped1436CSG-Subscription-DataGrouped1437CSG-IdUnsigned321438PDN-GW-Allocation-TypeEnumerated	1414 E-UTRAN-Vector	Grouped	
1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-Ol-ReplacementUTF8String1428All-APN-Configurations-Included-IndicatorEnumerated1429APN-Configuration-ProfileGrouped1430APN-ConfigurationGrouped1431EPS-Subscribed-QoS-ProfileGrouped1432VPLMN-Dynamic-Address-AllowedEnumerated1433STN-SROctetString1434Alert-ReasonEnumerated1435AMBRGrouped1436CSG-Subscription-DataGrouped1437CSG-IdUnsigned321438PDN-GW-Allocation-TypeEnumerated	1415 UTRAN-Vector	Grouped	
1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-Ol-ReplacementUTF8String1428All-APN-Configurations-Included-IndicatorEnumerated1429APN-Configuration-ProfileGrouped1430APN-ConfigurationGrouped1431EPS-Subscribed-QoS-ProfileGrouped1432VPLMN-Dynamic-Address-AllowedEnumerated1433STN-SROctetString1434Alert-ReasonEnumerated1435AMBRGrouped1436CSG-Subscription-DataGrouped1437CSG-IdUnsigned321438PDN-GW-Allocation-TypeEnumerated	1416 GERAN-Vector	Grouped	
1418 HPLMN-ODBEnumerated1419 Item-NumberUnsigned321420 Cancellation-TypeEnumerated1421 DSR-FlagsUnsigned321422 DSA-FlagsUnsigned321423 Context-IdentifierUnsigned321424 Subscriber-StatusEnumerated1425 Operator-Determined-BarringUnsigned321426 Access-Restriction-DataUTF8String1427 APN-Ol-ReplacementUTF8String1428 All-APN-Configurations-Included-IndicatorEnumerated1429 APN-Configuration-ProfileGrouped1431 EPS-Subscribed-QoS-ProfileGrouped1431 EPS-Subscribed-QoS-ProfileGrouped1432 VPLMN-Dynamic-Address-AllowedEnumerated1433 STN-SROctetString1434 Alert-ReasonEnumerated1435 AMBRGrouped1436 CSG-Subscription-DataGrouped1437 CSG-IdUnsigned321438 PDN-GW-Allocation-TypeEnumerated	1417 Network-Access-Mode		
1419   Item-NumberUnsigned321420   Cancellation-TypeEnumerated1421   DSR-FlagsUnsigned321422   DSA-FlagsUnsigned321423   Context-IdentifierUnsigned321424   Subscriber-StatusEnumerated1425   Operator-Determined-BarringUnsigned321426   Access-Restriction-DataUTF8String1427   APN-Ol-ReplacementUTF8String1428   All-APN-Configurations-Included-IndicatorEnumerated1429   APN-Configuration-ProfileGrouped1431   EPS-Subscribed-QoS-ProfileGrouped1432   VPLMN-Dynamic-Address-AllowedEnumerated1433   STN-SROctetString1434   Alert-ReasonEnumerated1435   AMBRGrouped1436   CSG-Subscription-DataGrouped1437   CSG-IdUnsigned321438   PDN-GW-Allocation-TypeEnumerated			
1420   Cancellation-Type			00 070 1041
1421 DSR-FlagsUnsigned321422 DSA-FlagsUnsigned321423 Context-IdentifierUnsigned321424 Subscriber-StatusEnumerated1425 Operator-Determined-BarringUnsigned321426 Access-Restriction-DataUTF8String1427 APN-OI-ReplacementUTF8String1428 All-APN-Configurations-Included-IndicatorEnumerated1429 APN-Configuration-ProfileGrouped1430 APN-ConfigurationGrouped1431 EPS-Subscribed-QoS-ProfileGrouped1432 VPLMN-Dynamic-Address-AllowedEnumerated1433 STN-SROctetString1434 Alert-ReasonEnumerated1435 AMBRGrouped1436 CSG-Subscription-DataGrouped1437 CSG-IdUnsigned321438 PDN-GW-Allocation-TypeEnumerated			29.272 [21]
1422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String1428All-APN-Configurations-Included-IndicatorEnumerated1429APN-Configuration-ProfileGrouped1430APN-ConfigurationGrouped1431EPS-Subscribed-QoS-ProfileGrouped1432VPLMN-Dynamic-Address-AllowedEnumerated1433STN-SROctetString1434Alert-ReasonEnumerated1435AMBRGrouped1436CSG-Subscription-DataGrouped1437CSG-IdUnsigned321438PDN-GW-Allocation-TypeEnumerated			
1423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String1428All-APN-Configurations-Included-IndicatorEnumerated1429APN-Configuration-ProfileGrouped1430APN-ConfigurationGrouped1431EPS-Subscribed-QoS-ProfileGrouped1432VPLMN-Dynamic-Address-AllowedEnumerated1433STN-SROctetString1434Alert-ReasonEnumerated1435AMBRGrouped1436CSG-Subscription-DataGrouped1437CSG-IdUnsigned321438PDN-GW-Allocation-TypeEnumerated			
1424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-Ol-ReplacementUTF8String1428All-APN-Configurations-Included-IndicatorEnumerated1429APN-Configuration-ProfileGrouped1430APN-ConfigurationGrouped1431EPS-Subscribed-QoS-ProfileGrouped1432VPLMN-Dynamic-Address-AllowedEnumerated1433STN-SROctetString1434Alert-ReasonEnumerated1435AMBRGrouped1436CSG-Subscription-DataGrouped1437CSG-IdUnsigned321438PDN-GW-Allocation-TypeEnumerated			
1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String1428All-APN-Configurations-Included-IndicatorEnumerated1429APN-Configuration-ProfileGrouped1430APN-ConfigurationGrouped1431EPS-Subscribed-QoS-ProfileGrouped1432VPLMN-Dynamic-Address-AllowedEnumerated1433STN-SROctetString1434Alert-ReasonEnumerated1435AMBRGrouped1436CSG-Subscription-DataGrouped1437CSG-IdUnsigned321438PDN-GW-Allocation-TypeEnumerated			
1426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String1428AlI-APN-Configurations-Included-IndicatorEnumerated1429APN-Configuration-ProfileGrouped1430APN-ConfigurationGrouped1431EPS-Subscribed-QoS-ProfileGrouped1432VPLMN-Dynamic-Address-AllowedEnumerated1433STN-SROctetString1434Alert-ReasonEnumerated1435AMBRGrouped1436CSG-Subscription-DataGrouped1437CSG-IdUnsigned321438PDN-GW-Allocation-TypeEnumerated			
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1428 All-APN-Configurations-Included-IndicatorEnumerated1429 APN-Configuration-ProfileGrouped1430 APN-ConfigurationGrouped1431 EPS-Subscribed-QoS-ProfileGrouped1432 VPLMN-Dynamic-Address-AllowedEnumerated1433 STN-SROctetString1434 Alert-ReasonEnumerated1435 AMBRGrouped1436 CSG-Subscription-DataGrouped1437 CSG-IdUnsigned321438 PDN-GW-Allocation-TypeEnumerated			
1429 APN-Configuration-ProfileGrouped1430 APN-ConfigurationGrouped1431 EPS-Subscribed-QoS-ProfileGrouped1432 VPLMN-Dynamic-Address-AllowedEnumerated1433 STN-SROctetString1434 Alert-ReasonEnumerated1435 AMBRGrouped1436 CSG-Subscription-DataGrouped1437 CSG-IdUnsigned321438 PDN-GW-Allocation-TypeEnumerated			
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1433STN-SROctetString1434Alert-ReasonEnumerated1435AMBRGrouped1436CSG-Subscription-DataGrouped1437CSG-IdUnsigned321438PDN-GW-Allocation-TypeEnumerated			
1434 Alert-ReasonEnumerated1435 AMBRGrouped1436 CSG-Subscription-DataGrouped1437 CSG-IdUnsigned321438 PDN-GW-Allocation-TypeEnumerated		Liiuiiitialtu	
1435 AMBRGrouped1436 CSG-Subscription-DataGrouped1437 CSG-IdUnsigned321438 PDN-GW-Allocation-TypeEnumerated	11/33   STN_SR	OctotString	
1436 CSG-Subscription-DataGrouped1437 CSG-IdUnsigned321438 PDN-GW-Allocation-TypeEnumerated			
1437 CSG-IdUnsigned321438 PDN-GW-Allocation-TypeEnumerated	1434 Alert-Reason	Enumerated	
1438 PDN-GW-Allocation-Type Enumerated	1434 Alert-Reason 1435 AMBR	Enumerated Grouped	
	<ul><li>1434 Alert-Reason</li><li>1435 AMBR</li><li>1436 CSG-Subscription-Data</li></ul>	Enumerated Grouped Grouped	
1409   Expiration-Date	<ul><li>1434 Alert-Reason</li><li>1435 AMBR</li><li>1436 CSG-Subscription-Data</li><li>1437 CSG-Id</li></ul>	Enumerated Grouped Grouped Unsigned32	
	<ul> <li>1434 Alert-Reason</li> <li>1435 AMBR</li> <li>1436 CSG-Subscription-Data</li> <li>1437 CSG-Id</li> <li>1438 PDN-GW-Allocation-Type</li> </ul>	Enumerated Grouped Grouped Unsigned32 Enumerated	

4440 DAT Francisco Colombian Driving	FFC	
1440 RAT-Frequency-Selection-Priority	FFS	
1441 IDA-Flags	Unsigned32	
1442 PUA-Flags	Unsigned32	
1443 NOR-Flags	Unsigned32	
1444 User-Id	UTF8String	
1445 Equipment-Status	Enumerated	
1446 Regional-Subscription-Zone-Code	OctetString	
1447 RAND	OctetString	
1448   XRES	OctetString	
1449 AUTN	OctetString	
1450 KASME	OctetString	
1451 Reserved	-	
1452 Trace-Collection-Entity	Address	
1453 Kc	OctetString	
1454 SRES	OctetString	
1455 Reserved	Cetetoting	
	_	
1456 PDN-Type	Enumerated	
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated	
1458 Trace-Data	Grouped	
1459 Trace-Reference	OctetString	
1460 Reserved	-	
1461 Reserved	-	
1462 Trace-Depth	Enumerated	
1463 Trace-NE-Type-List	OctetString	
1464 Trace-Interface-List	OctetString	
1465 Trace-Event-List	OctetString	
1466 OMC-Id	OctetString	
1467 GPRS-Subscription-Data	Grouped	
1468 Complete-Data-List-Included-Indicator	Enumerated	
1469 PDP-Context	Grouped	
1470 PDP-Type	OctetString	
1471 3GPP2-MEID	OctetString	
1472 Specific-APN-Info	Grouped	
1473 LCS-Info	Grouped	
1474 GMLC-Number	OctetString	
1475 LCS-PrivacyException	Grouped	
1476 SS-Code	OctetString	
1477 SS-Status	Grouped	
1478 Notification-To-UE-User	Enumerated	
1479 External-Client	Grouped	
1480 Client-Identity	OctetString	
1481 GMLC-Restriction	Enumerated	
1482 PLMN-Client	Enumerated	
1483 Service-Type	Grouped	
1484 ServiceTypeIdentity	Unsigned32	
1485 MO-LR	Ü	
	Grouped	
1486 Teleservice-List	Grouped	
1487 TS-Code	Enumerated	
1488 Call-Barring-Infor-List	Grouped	
1489 SGSN-Number	OctetString	
1490 IDR-Flags	Unsigned32	
1491 ICS-Indicator	Enumerated	
Note: The AVP codes from 1492 to 1499 are reserved for TS 29.272.		
1500 Non-3GPP-User-Data	Grouped	
1501 Non-3GPP-IP-Access	Enumerated	
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		
2000 SMS-Information	Grouped	
2001 Data-Coding-Scheme	Integer32	
2002 Destination-Interface	Grouped	32.299 [5]
2003 Interface-Id	UTF8String	
2004 Interface-Port	UTF8String	
<u> </u>		

2005 Interface-Text	UTF8String	
2006 Interface-Text	Enumerated	
2007 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	
	OctetString	
2014 SM-Status		
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	
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	Enumerated	
2037 Change-Condition	Integer32	
2038 Change-Time	Time	
2039 Diagnostics	Integer32	
2040 Service-Data-Container	Grouped	
2041 Start-Time	Time	
2042 Stop-Time	Time	
2043 Time-First-Usage	Time	
2044 Time-Last-Usage	Time	
2045 Time-Usage	Unsigned32	
2046 Traffic-Data-Volumes	Grouped	
2047 Serving-Node-Type	Enumerated	
2048 Supplementary-Service	Grouped	
2049 Participant-Action-Type	Enumerated	
2050 Reserved	Lituilleiateu	
2051 Dynamic-Address-Flag	Enumerated	
2051   Dynamic-Address-Frag 2052   Accumulated-Cost	Grouped	
2052 Accumulated-Cost 2053 AoC-Cost-Information		
2054 AoC-Information	Grouped	
	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	
Note: The AVP codes from 2064 to 2099 are reserved for TS 32.299	-	
2100 reserved	-	
2101 Application-Server-ID	UTF8String	
2102 Application-Service-Type	Enumerated	32.299 [5
24.02 Application Cossion ID	Unsigned32	_
2103 Application-Session-ID	Onloightodoz	

2105 recoved	T	
2105 reserved	-	
2106 reserved	-	
2107 reserved	-	
2108 reserved	-	
2109 reserved		
2110 IM-Information	Grouped	
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112 Number-Of-Messages-Successfully-Sent	Unsigned32	
2113 Total-Number-Of-Messages-Exploded	Unsigned32	
2114 Total-Number-Of-Messages-Sent	Unsigned32	
2115 DCD-Information	Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String	
Note: The AVP codes from 2118 to 2199 are reserved for TS 32.299		
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	20 245 [22]
2202 Subsession-Id	Unsigned32	29.215 [22]
2203 Subsession-Operation	Enumerated	
Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215	•	
Note: The AVP codes from 2300 to 2399 are reserved for TS 32.299		
2300 Location-Type	Enumerated	
2301 LCS-EPS-Client-Name	Grouped	
2302 LCS-Requestor-Name	Grouped	
2303 LCS-Priority	Unsigned32	
2304 LCS-QoS	Grouped	
2305 Horizontal-Accuracy	Unsigned32	
2306 Vertical-Accuracy	Unsigned32	
2307 Vertical-Requested	Enumerated	
2308 Velocity-Requested	Enumerated	
2309 Response-Time	Enumerated	
2310 Supported-GAD-Shapes	Unsigned32	
2311 LCS-Codeword	UTF8String	29.172 [24]
2312 LCS-Privacy-Check	Enumerated	20.172 [21]
2313 Accuracy-Fulfilment-Indicator	Enumerated	
2314 Age-Of-Location-Estimate	Unsigned32	
2315 Velocity-Estimate	OctetString	
2316 EUTRAN-Positioning-Data	OctetString	
2317 ECGI	OctetString	
2318 Location-Event	Enumerated	
2319 Pseudonym-Indicator 2320 LCS-Service-Type-ID	Enumerated Unsigned33	
	Unsigned32	
2321 LCS-Privacy-Check-Non-Session	Grouped	
2322 LCS-Privacy-Check-Session	Grouped	
Note: The AVP codes from 2323 to 2399 are reserved for TS 29.172 2400 LMSI	OototCtrin =	
	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	00 470 [05]
2403 MSC-Number	OctetString	29.173 [25]
2404 GMLC-Address	Address	
2405 Additional-Serving-Node	Grouped	
2406 PPR-Address	Address	
Note: The AVP codes from 2407 to 2499 are reserved for TS 29.173		

# 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	xperimental Result text			
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 Experimental Result Codes from 2022 to 2040 are reserved for the TS 29.061				
_		29.109 [7]		
Note: The Experime	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.			

#### 8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental	Result text	Specified in the TS	
Result Code			
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.		

#### 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	_00 [_]
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	2 20 220
Note. The Expe		
Note: The Eve	primarytal Daguit Cadaa fram 5004 to 5040 are recomined for the Ti	32.299 [5]
	erimental Result Codes from 5021 to 5040 are reserved for the TS	5 32.299.
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC	29.234 [6]
	RIPTION	20.204 [0]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	
Note: The Expe	erimental Result Codes from 5046 to 5060 are reserved for the TS	S 29.234.
5061	INVALID_SERVICE_INFORMATION	29.209 [8],
5062	FILTER_RESTRICTIONS	29.211 [17]
Note: The Expe	erimental Result Codes from 5063 to 5080 are reserved for TS 29	
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	
5105	DIAMETER_ERROR_TRANSPARENT_DATA	29.329 [4]
0.00	OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER ERROR NO SUBSCRIPTION TO DATA	
5107	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	erimental Result Codes from 5109 to 5119 are reserved for the T	2 20 220
•		5 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	00 004 [40]
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
	erimental Result Codes from 5124 to 5139 are reserved for the T	S 29.061.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	20 242 [40]
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	29.212 [19]
5143	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	
	D	
Note: The Exne	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	2000 [,
	erimental Result Codes from 5404 to 5419 are reserved for the TS	S 29 109
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	J 20.100.
		20 272 [24]
	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5421	DIAMETED EDDOD EQUIDMENT UNIVERSIVA	
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	2.00.070
5422 Note: The Expe	erimental Result Codes from 5423 to 5449 are reserved for the TS	S 29.272.
5422 Note: The Expe 5450	erimental Result Codes from 5423 to 5449 are reserved for the TS DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTION	
5422 Note: The Expe	erimental Result Codes from 5423 to 5449 are reserved for the TSDIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTION  DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	S 29.272. 29.273 [20]
5422 Note: The Expe 5450	erimental Result Codes from 5423 to 5449 are reserved for the TS DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTION	

5470	DIAMETER_ERROR _SUBSESSION	29.215 [22]					
Note: The Experimental Result Codes from 5471 to 5489 are reserved for the TS 29.215.							
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET 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	0.1	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	<u>L</u>	
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
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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
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2000 00		CP-080191	0112		Rel-7		
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# History

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