ETSITS 129 230 V10.15.0 (2015-07)



Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE;

Diameter applications; 3GPP specific codes and identifiers (3GPP TS 29.230 version 10.15.0 Release 10)



Reference RTS/TSGC-0429230vaf0 Keywords GSM,LTE,UMTS

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Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

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Foreword

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1 Scope

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

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

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
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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*.

228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and ents".
229: "Cx and Dx interfaces based on the Diameter protocol; Protocol details".
328: "IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message
329: "Sh Interface based on the Diameter protocol; Protocol details".
299: "3GPP Diameter charging application".
234: "3GPP System to WLAN Interworking; Stage 3 Description".
109: "Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the cocol; Protocol details".
209: "Technical Specification Group Core Network; Policy control over Gq
88: "Diameter Base Protocol".
89: "Diameter Command Codes for Third Generation Partnership Project (3GPP)
rprise-Numbers: http://www.iana.org/assignments/enterprise-numbers
a parameters register: ftp://ftp.iana.org/assignments/aaa-parameters/
061: "Interworking between the Public Land Mobile Network (PLMN) supporting services and Packet Data Networks (PDN)".
296: "Telecommunication management; Online Charging System (OCS): and interfaces;".
210: "Charging rule provisioning over Gx interface".
40 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]
16777292	3GPP SGmb	29.061 [13]

5 Command codes

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

5.1 Command codes allocated for 3GPP

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

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

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

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
8388620	Provide-Location-Request/Answer	PLR/PLA	20 472 [24]
8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]
8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]

6 Vendor identifier

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

6.1 3GPP"s vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
102	3GPP-WLAN-QoS-Filter-Support	OctetString	
	The AVP codes from 1 to 255 are reserved for backwards compatibilit tes (See TS 29.061 [13] and TS 29.234 [6])	ty with 3GPP RADIUS Ve	ndor Specific
	The AVP codes from 256 to 299 are reserved for future use.		
300	Authentication-Method	Enumerated	
301	Authentication-Information-SIM	OctetString	
	Authorization -Information-SIM	OctetString	
	WLAN-User-Data	Grouped	
	Charging-Data	Grouped	
	WLAN-Access	Enumerated	
	WLAN- 3GPP-IP-Access	Enumerated	
	APN-Authorized	Grouped	_
	APN-Id		
	APN-Barring-Type	Enumerated	
	WLAN-Direct-IP-Access	Enumerated	29.234 [6]
	Session-Request-Type	Enumerated	
	Routing-Policy	IPFilterRule	
	Max-Requested-Bandwidth	OctetString	
	Charging-Characteristics	Integer	
	Charging-Nodes	Grouped	_
	Primary-OCS-Charging-Function-Name	DiameterIdentity	
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
	3GPP-AAA-Server-Name	DiameterIdentity	
	Maximum-Number-Accesses	Unsigned32	
	The AVP codes from 320 to 399 are reserved for TS 29.234 GBA-UserSecSettings	OctetString	
	Transaction-Identifier	OctetString	
	NAF-Hostname	OctetString	
	GAA-Service-Identifier	OctetString	
404	Key-ExpiryTime	Time	
405	ME-Key-Material	OctetString	
	UICC-Key-Material	OctetString	
	GBA_U-Awareness-Indicator	Enumerated	
	BootstrapInfoCreationTime	Time	
	GUSS-Timestamp GBA-Type	Time Enumerated	29.109 [7]
	UE-Id	OctetString	29.109[7]
	UE-Id-Type	Enumerated	
413	UICC-App-Label	OctetString	
	UICC-ME	Enumerated	
	Requested-Key-Lifetime	Time	
	Private-Identity-Request	Enumerated	
	GBA-Push-Info	OctetString	
	NAF-SA-Identifier	OctetString	
	Security-Feature-Request	OctetString	
	Security-Feature-Response The AVP codes from 421 to 499 are reserved for TS 29.109	OctetString	
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	
	Access-Network-Charging-Identifier	Grouped	
503	Access-Network-Charging-Identifier-Value	OctetString	29.209 [8],
	AF-Application-Identifier	OctetString	29.211 [17] ,
	AF-Charging-Identifier	OctetString	29.214 [18]
	Authorization-Token	OctetString]
		· · · · · · · · · · · · · · · · · · ·	1
507	Flow-Description	IPFilterRule	

_	_	,	
	Flow-Number	Unsigned32	
	Flows	Grouped	
	Flow-Status	Enumerated	
	Flow-Usage	Enumerated	
	Specific-Action	Enumerated	
	Max-Requested-Bandwidth	Unsigned32	
515	Max-Requested-Bandwidth-DL	Unsigned32	
516	Max-Requested-Bandwidth-UL	Unsigned32	
	Media-Component-Description	Grouped	
	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	
524	Codec-Data	OctetString	
525	Service-URN	OctetString	
526	Acceptable-Service-Info	Grouped	
	Service-Info-Status	Enumerated	
	MPS-Identifier	OctetString	
	AF-Signalling-Protocol	Enumerated	
	Sponsored-Connectivity-Data	Grouped	
531	Sponsor-Identity	OctetString	
532	Application-Service-Provider-Identity	OctetString	
	reserved	-	
	Min-Requested-Bandwidth-DL	Unsigned32	
	Min-Requested-Bandwidth-UL	Unsigned32	
	The AVP codes from 536 to 599 are reserved for TS 29.209, TS 29.2		
	Visited-Network-Identifier	OctetString	
	Public-Identity Public-Identity	UTF8String	
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	
	SIP-Authorization	OctetString	
	SIP-Authentication-Context	OctetString	
	SIP-Auth-Data-Item	Grouped	
	SIP-Item-Number	Unsigned32	
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
	Reason-Info	UTF8String	
	Charging-Information	Grouped	29.229 [2]
	Primary-Event-Charging-Function-Name	DiameterURI	[]
	Secondary-Event-Charging-Function-Name	DiameterURI	
	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
	User-Authorization-Type	Enumerated	
	User-Data-Already-Available	Enumerated	
	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
	Supported-Applications	Grouped	
	Associated-Identities		
		Grouped	
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String Grouped	
		rarouped	
	SIP-Digest-Authenticate Wildcarded-IMPU	UTF8String	

		1	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
	SCSCF-Restoration-Info	Grouped	
	Path	OctetString	
	Contact	OctetString	
	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	
	Record-Route	OctetString	
647	Associated-Registered-Identities	Grouped	
648	Multiple-Registration-Indication	Enumerated	
649	Restoration-Info	Grouped	
650	Session-Priority	Enumerated	
651	Identity-with-Emergency-Registration	Grouped	
652	Priviledged-Sender-Indication	Enumerated	
Note:	The AVP codes from 653 to 699 are reserved for TS 29.229.		
700	User-Identity	Grouped	
701	MSISDN	OctetString	
702	User-Data	OctetString	
703	Data-Reference	Enumerated	
	Service-Indication	OctetString	
	Subs-Req-Type	Enumerated	
	Requested-Domain	Enumerated	
707	Current-Location	Enumerated	
708	Identity-Set	Enumerated	00 000 [4]
	Expiry-Time	Time	29.329 [4]
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	
	One-Time-Notification	Enumerated	
	Requested-Nodes	Unsigned32	
	Serving-Node-Indication	Enumerated	
	Repository-Data-ID	Grouped	
	Sequence-Number	Unsigned32	
717			
	Pre-paging-Supported	Enumerated	
Note:	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329.		
Note:	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299.	Enumerated	
Note: Note: 823	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type	Enumerated Grouped	
Note: Note: 823 824	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method	Enumerated Grouped UTF8String	
Note: Note: 823 824 825	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event	Grouped UTF8String UTF8String	
Note: Note: 823 824 825 826	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type	Grouped UTF8String UTF8String UTF8String	
Note: Note: 823 824 825 826 827	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length	Grouped UTF8String UTF8String	
Note: Note: 823 824 825 826 827 828	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32	
Note: Note: 823 824 825 826 827 828 829	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated	
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Note: Note: 823 824 825 826 827 828 829 830 831 832 833	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps	Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String	
Note: Note: 823 824 825 826 827 828 829 830 831 832 833	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp	Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String	
Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp	Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String	
Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String	32.299 [5]
Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address	Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String	32.299 [5]
Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-provided-called-party-address Inter-Operator-Identifier	Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String UTF8String	32.299 [5]
Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI	Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String UTF8String UTF8String	32.299 [5]
Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String UTF8String UTF8String UTF8String UTF8String	32.299 [5]
Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String	32.299 [5]
Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String	32.299 [5]
Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp SIP-Response-Timestamp Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Component	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String	32.299 [5]
Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Name	Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String	32.299 [5]
Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Name SDP-Media-Description	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String	32.299 [5]
Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Name SDP-Media-Description CG-Address	Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String	32.299 [5]
Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Name SDP-Media-Description CG-Address GGSN-Address	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String	32.299 [5]
Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Component SDP-Media-Description CG-Address GGSN-Address Served-Party-IP-Address	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String Address Address Address	32.299 [5]
Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 840 841 842 843 844 845 846 847	Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Name SDP-Media-Description CG-Address GGSN-Address	Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String	32.299 [5]

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900 TMGI OctectString 901 Required-MBMS-Bearer-Capabilities UTF8String 902 MBMS-StartStop-Indication Enumerated 903 MBMS-Service-Area OctectString 904 MBMS-Session-Duration Unsigned32 905 Alternative-APN UTF8String 906 MBMS-Service-Type Enumerated 907 MBMS-2G-3G-Indicator Enumerated 908 MBMS-Session-Identity OctetString 909 RAI UTF8String	900 TMGI OctectString 901 Required-MBMS-Bearer-Capabilities UTF8String 902 MBMS-StartStop-Indication Enumerated 903 MBMS-Service-Area OctectString 904 MBMS-Session-Duration Unsigned32 905 Alternative-APN UTF8String 906 MBMS-Service-Type Enumerated 907 MBMS-2G-3G-Indicator Enumerated 908 MBMS-Session-Identity OctetString 909 RAI UTF8String 910 Additional-MBMS-Trace-Info OctetString 911 MBMS-Time-To-Data-Transfer Unsigned32 912 MBMS-Session-Identity-Repetition-Number Unsigned32 913 MBMS-Required-QoS				
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907MBMS-2G-3G-IndicatorEnumerated29.061 [13]908MBMS-Session-IdentityOctetString909RAIUTF8String	907 MBMS-2G-3G-Indicator Enumerated 29.061 [13] 908 MBMS-Session-Identity OctetString 909 RAI UTF8String 910 Additional-MBMS-Trace-Info OctetString 911 MBMS-Time-To-Data-Transfer Unsigned32 912 MBMS-Session-Identity-Repetition-Number Unsigned32 913 MBMS-Required-QoS UTF8String				
908 MBMS-Session-Identity OctetString 909 RAI UTF8String	908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String				
909 RAI UTF8String	909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String				29.061 [13]
	910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String				
910 Additional-MBMS-Trace-Info OctetString	911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String				
	912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String				
	913 MBMS-Required-QoS UTF8String				
	LOAA IMPMO O - continue information				
	914 IVIBINIS-Counting-Information Enumerated	914	MBMS-Counting-Information	Enumerated	

915 MBMS-User-Data-Mode-Indication	Enumerated	
916 MBMS-GGSN-Address	UTF8String	
917 MBMS-GGSN-IPv6-Address	UTF8String	
918 MBMS-BMSC-SSM-IP-Address	UTF8String	
919 MBMS-BMSC-SSM-IPv6-Address	UTF8String	
920 MBMS-Flow-Identifier	OctetString	
921 CN-IP-Multicast-Distribution	Enumerated	
922 MBMS-HC-Indicator	Enumerated	
923 MBMS-Access-Indicator	Enumerated	
924 MBMS-GW-SSM-IP-Address	OctetString	
925 MBMS-GW-SSM-IPv6-Address	OctetString	
926 MBMS-BMSC-SSM-UDP-Port	OctetString	
927 MBMS-GW-UDP-Port	OctetString	
928 MBMS-GW-UDP-Port-Indicator	Enumerated	
Note: The AVP codes from 929 to 999 are reserved for TS 29.061		
1000 Bearer-Usage	Enumerated	
1001 Charging-Rule-Install	Grouped	
1002 Charging-Rule-Remove	Grouped	
1003 Charging-Rule-Definition	Grouped	
1004 Charging-Rule-Base-Name	UTF8String	
1005 Charging-Rule-Name	OctetString	
1006 Event-Trigger	Enumerated	
1007 Metering-Method	Enumerated	
1008 Offline	Enumerated	
1009 Online	Enumerated	
1010 Precedence	Unsigned32	
1011 Reporting-Level	Enumerated	
1012 TFT-Filter	IPFilterRule	
1013 TFT-Packet-Filter-Information	Grouped	
1014 ToS-Traffic-Class	OctetString	
1016 QoS-Information	Grouped	
1018 Charging-Rule-Report	Grouped	
1019 PCC-Rule-Status	Enumerated	
1020 Bearer-Identifier	OctetString	
1021 Bearer-Operation	Enumerated	
1022 Access-Network-Charging-Identifier-Gx	Grouped	
1023 Bearer-Control-Mode	Enumerated	
1024 Network-Request-Support	Enumerated	
1025 Guaranteed-Bitrate-DL	Unsigned32	
1026 Guaranteed-Bitrate-UL	Unsigned32	00 040 [40]
1027 IP-CAN-Type	Enumerated	29.212 [19]
1028 QoS-Class-Identifier	Enumerated	
1029 QoS-Negotiation	Enumerated	
1030 QoS-Upgrade	Enumerated	
1031 Rule-Failure-Code	Enumerated	
1032 RAT-Type	Enumerated	
1033 Event-Report-Indication	Grouped	
1034 Allocation-Retention-Priority	Grouped	
1035 CoA-IP-Address	Address	
1036 Tunnel-Header-Filter	IPFilterRule	
1037 Tunnel-Header-Length	Unsigned32	
1038 Tunnel-Information	Grouped	
1039 CoA-Information	Grouped	
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32	
1041 APN-Aggregate-Max-Bitrate-UL	Unsigned32	
1042 Revalidation-Time	Time	
1043 Rule-Activation-Time	Time	
1044 Rule-DeActivation-Time	Time	
1045 Session-Release-Cause	Enumerated	
1046 Priority-Level	Unsigned32	
1047 Pre-emption-Capability	Enumerated	
1048 Pre-emption-Vulnerability	Enumerated	
1049 Default-EPS-Bearer-QoS	Grouped	
1050 AN-GW-Address	Address	
1051 QoS-Rule-Install	Grouped	
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1052 QoS-Rule-Remove	Grouped	
1053 QoS-Rule-Definition	Grouped	
1054 QoS-Rule-Name	OctetString	
1055 QoS-Rule-Report	Grouped	
1056 Security-Parameter-Index	OctetString	
1057 Flow-Label	OctetString	
1058 Flow-Information	Grouped	
1059 Packet-Filter-Content	IPFilterRule	
1060 Packet-Filter-Identifier	OctetString	
1061 Packet-Filter-Information	Grouped	
1062 Packet-Filter-Operation	Enumerated	
1063 Resource-Allocation-Notification	Enumerated	
	Enumerated	
1064 Session-Linking-Indicator		
1065 PDN-Connection-ID	OctetString	
1066 Monitoring-Key	OctetString	
1067 Usage-Monitoring-Information	Grouped	
1068 Usage-Monitoring-Level	Enumerated	
1069 Usage-Monitoring-Report	Enumerated	
1070 Usage-Monitoring-Support	Enumerated	
1071 CSG-Information-Reporting	Enumerated	
1072 Packet-Filter-Usage	Enumerated	
1073 Charging-Correlation-Indicator	Enumerated	
1074 QoS-Rule-Base-Name	UTF8String	
1075 Routing-Rule-Remove	Grouped	
1076 Routing-Rule-Definition	Grouped	
1077 Routing-Rule-Identifier	OctetString	
1077 Routing-Rule-identifier 1078 Routing-Filter	Grouped	
1079 Routing-IP-Address	Address	
1080 Flow-Direction	Enumerated	
1081 Routing-Rule-Install	Grouped	
Note: The AVP codes from 1082 to 1099 are reserved for TS 29.212		
1100 Served-User-Identity	Groupe	
1101 VASP-ID	UTF8Str	
1102 VAS-ID	UTF8String	
1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address	Grouped	
1106 Result-Recipient-Address	Grouped	
1107 Sequence-Number	Unsigned32	
1108 Recipient-Address	UTF8String	
1109 Routeing-Address	UTF8String	20 140 [16]
1110 Originating-Interface	· · · · · · · · · · · · · · · · · · ·	29.140 [16]
	Enumerated	
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key	UTF8String	
1115 Billing-Information	UTF8String	
1116 Status	Grouped	
1116 Status 1117 Status-Code	Grouped UTF8String	
1116 Status	Grouped	
1116 Status 1117 Status-Code	Grouped UTF8String	
1116 Status 1117 Status-Code 1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	Grouped UTF8String UTF8String	
1116 Status 1117 Status-Code 1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name	Grouped UTF8String UTF8String UTF8String	
1116 Status 1117 Status-Code 1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name 1201 Recipient-Address	Grouped UTF8String UTF8String UTF8String Grouped	
1116 Status 1117 Status-Code 1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name 1201 Recipient-Address 1202 Submission-Time	Grouped UTF8String UTF8String UTF8String Grouped Time	
1116 Status 1117 Status-Code 1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name 1201 Recipient-Address 1202 Submission-Time 1203 MM-Content-Type	Grouped UTF8String UTF8String UTF8String Grouped Time Grouped	
1116 Status 1117 Status-Code 1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name 1201 Recipient-Address 1202 Submission-Time 1203 MM-Content-Type 1204 Type-Number	Grouped UTF8String UTF8String UTF8String Grouped Time Grouped Enumerated	
1116 Status 1117 Status-Code 1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name 1201 Recipient-Address 1202 Submission-Time 1203 MM-Content-Type 1204 Type-Number 1205 Additional-Type-Information	Grouped UTF8String UTF8String UTF8String Grouped Time Grouped Enumerated UTF8String	
1116 Status 1117 Status-Code 1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name 1201 Recipient-Address 1202 Submission-Time 1203 MM-Content-Type 1204 Type-Number 1205 Additional-Type-Information 1206 Content-Size	Grouped UTF8String UTF8String UTF8String Grouped Time Grouped Enumerated UTF8String Unsigned32	32.299 [5]
1116 Status 1117 Status-Code 1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name 1201 Recipient-Address 1202 Submission-Time 1203 MM-Content-Type 1204 Type-Number 1205 Additional-Type-Information 1206 Content-Size 1207 Additional-Content-Information	Grouped UTF8String UTF8String Grouped Time Grouped Enumerated UTF8String Unsigned32 Grouped	32.299 [5]
1116 Status 1117 Status-Code 1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name 1201 Recipient-Address 1202 Submission-Time 1203 MM-Content-Type 1204 Type-Number 1205 Additional-Type-Information 1206 Content-Size 1207 Additional-Content-Information 1208 Addressee-Type	Grouped UTF8String UTF8String Grouped Time Grouped Enumerated UTF8String Unsigned32 Grouped Enumerated	32.299 [5]
1116 Status 1117 Status-Code 1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name 1201 Recipient-Address 1202 Submission-Time 1203 MM-Content-Type 1204 Type-Number 1205 Additional-Type-Information 1206 Content-Size 1207 Additional-Content-Information 1208 Addressee-Type 1209 Priority	Grouped UTF8String UTF8String UTF8String Grouped Time Grouped Enumerated UTF8String Unsigned32 Grouped Enumerated Enumerated Enumerated	32.299 [5]
1116 Status 1117 Status-Code 1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name 1201 Recipient-Address 1202 Submission-Time 1203 MM-Content-Type 1204 Type-Number 1205 Additional-Type-Information 1206 Content-Size 1207 Additional-Content-Information 1208 Addressee-Type 1209 Priority 1210 Message-ID	Grouped UTF8String UTF8String Grouped Time Grouped Enumerated UTF8String Unsigned32 Grouped Enumerated Enumerated Enumerated UTF8String Unsigned32	32.299 [5]
1116 Status 1117 Status-Code 1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name 1201 Recipient-Address 1202 Submission-Time 1203 MM-Content-Type 1204 Type-Number 1205 Additional-Type-Information 1206 Content-Size 1207 Additional-Content-Information 1208 Addressee-Type 1209 Priority	Grouped UTF8String UTF8String UTF8String Grouped Time Grouped Enumerated UTF8String Unsigned32 Grouped Enumerated Enumerated Enumerated	32.299 [5]
1116 Status 1117 Status-Code 1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name 1201 Recipient-Address 1202 Submission-Time 1203 MM-Content-Type 1204 Type-Number 1205 Additional-Type-Information 1206 Content-Size 1207 Additional-Content-Information 1208 Addressee-Type 1209 Priority 1210 Message-ID	Grouped UTF8String UTF8String Grouped Time Grouped Enumerated UTF8String Unsigned32 Grouped Enumerated Enumerated Enumerated UTF8String Unsigned32	32.299 [5]
1116 Status 1117 Status-Code 1118 Status-Text Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name 1201 Recipient-Address 1202 Submission-Time 1203 MM-Content-Type 1204 Type-Number 1205 Additional-Type-Information 1206 Content-Size 1207 Additional-Content-Information 1208 Addressee-Type 1209 Priority 1210 Message-ID 1211 Message-Type	Grouped UTF8String UTF8String Grouped Time Grouped Enumerated UTF8String Unsigned32 Grouped Enumerated Enumerated UTF8String Unsigned32 Grouped Enumerated Enumerated Enumerated	32.299 [5]

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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-APN	UTF8String
1232 LCS-Client-Id	Grouped
1233 LCS-Client-Dialed-By-MS	UTF8String
1234 LCS-Client-External-ID	UTF8String Crouped
1235 LCS-Client-Name	Grouped
1236 LCS-Data-Coding-Scheme 1237 LCS-Format-Indicator	UTF8String Enumerated
1237 LCS-Format-Indicator 1238 LCS-Name-String	Enumerated UTF8String
1239 LCS-Requestor-Id	Grouped UTF8String
1240 LCS-Requestor-Id-String 1241 LCS-Client-Type	Enumerated
1242 Location-Estimate	
1243 Location-Estimate-Type	OctetString 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
1262 PoC-Change-Time	Time
1263 Access-Network-Information	OctetString
1264 Trigger	Grouped
1265 Base-Time-Interval	Unsigned32
1266 Envelope	Grouped
1267 Envelope-End-Time	Time
1268 Envelope-Reporting	Enumerated
1269 Envelope-Start-Time	Time
1270 Time-Quota-Mechanism	Grouped
1271 Time-Quota-Type	Enumerated
1272 Early-Media-Description	Grouped
1273 SDP-TimeStamps	Grouped
1274 SDP-Offer-Timestamp	Time
1275 SDP-Answer-Timestamp	Time
1276 AF-Correlation-Information	Grouped
1277 PoC-Session-Initiation-type	Enumerated
1278 Offline-Charging	Grouped

1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299	Crayrand	
1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI 1403 Software-Version	UTF8String UTF8String	
1404 QoS-Subscribed	UTF8String	
1405 ULR-Flags	Unsigned32	
1406 ULA-Flags	Unsigned32	
1407 Visited PLMN Id	OctetString	
1408 Requested-EUTRAN-Authentication-Info	Grouped	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped	
1410 Number-Of-Requested-Vectors	Unsigned32	
1411 Re-Synchronization-Info	OctetString	
1412 Immediate-Response-Preferred	Unsigned32	
1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	
1417 Network-Access-Mode	Enumerated	
1418 HPLMN-ODB	Enumerated	
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
1426 Access-Restriction-Data	UTF8String	29.272 [21]
1427 APN-OI-Replacement	UTF8String	20.272 [21]
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 1434 Alert-Reason	OctetString	
1435 AMBR	Enumerated Grouped	
1435 AMBR 1436 CSG-Subscription-Data	Grouped	
1437 CSG-Id	Unsigned32	
1437 CSG-Id 1438 PDN-GW-Allocation-Type	Enumerated	
1439 Expiration-Date	Time	
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32	
1441 IDA-Flags	Unsigned32	
1442 PUA-Flags	Unsigned32	
1443 NOR-Flags	Unsigned32	
1444 User-Id	UTF8String	
1445 Equipment-Status	Enumerated	
1446 Regional-Subscription-Zone-Code	OctetString	
1447 RAND	OctetString	
1448 XRES	OctetString	
1449 AUTN	OctetString	
1450 KASME	OctetString	
1451 Reserved	-	
1452 Trace-Collection-Entity	Address	
1453 Kc	OctetString	
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1454 SRES	OctetString	
1455 Reserved	-	
1456 PDN-Type	Enumerated	
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated	
1458 Trace-Data	Grouped	
1459 Trace-Reference	OctetString	
1460 Reserved	-	
1461 Reserved	-	
1462 Trace-Depth	Enumerated	
1463 Trace-NE-Type-List	OctetString	
1464 Trace-Interface-List	OctetString	
1465 Trace-Event-List	OctetString	
1466 OMC-Id	OctetString	
1467 GPRS-Subscription-Data	Grouped	
1468 Complete-Data-List-Included-Indicator	Enumerated	
1469 PDP-Context	Grouped	
1470 PDP-Context		
	OctetString	
1471 3GPP2-MEID	OctetString	
1472 Specific-APN-Info	Grouped	
1473 LCS-Info	Grouped	
1474 GMLC-Number	OctetString	
1475 LCS-PrivacyException	Grouped	
1476 SS-Code	OctetString	
1477 SS-Status	OctetString	
1478 Notification-To-UE-User	Enumerated	
1479 External-Client	Grouped	
1480 Client-Identity	OctetString	
1481 GMLC-Restriction	Enumerated	
1482 PLMN-Client	Enumerated	
1483 Service-Type	Grouped	
1484 ServiceTypeIdentity	Unsigned32	
1485 MO-LR	Grouped	
1486 Teleservice-List	Grouped	
1487 TS-Code	Enumerated	
1488 Call-Barring-Info	Grouped	
1489 SGSN-Number	OctetString	
1490 IDR-Flags	Unsigned32	
1491 ICS-Indicator	Enumerated	
1492 IMS-Voice-Over-PS-Sessions-Supported	Enumerated	
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated	
1494 Last-UE-Activity-Time	Time	
1495 EPS-User-State	Grouped	
1496 EPS-Location-Information	Grouped	
1497 MME-User-State	Grouped	
1498 SGSN-User-State	Grouped	
1499 User-State	Enumerated	
1500 Non-3GPP-User-Data	Grouped	
1501 Non-3GPP-IP-Access	Enumerated	
1502 Non-3GPP-IP-Access-APN	Enumerated	
1503 AN-Trusted	Enumerated	
1504 ANID	UTF8String	
1505 Trace-Info	Grouped	
1506 MIP-FA-RK	OctetString	
1507 MIP-FA-RK-SPI	Unsigned32	
1508 Reserved	=	29.273 [20]
1509 Reserved	-	
1510 Reserved	-	
1511 Reserved	-	
1512 Reserved	-	
1513 Reserved	-	
1514 Reserved	-	
1515 Trust-Relationship-Update	Enumerated	
1516 Reserved	-	
1517 Reserved	-	
	1	

Note: The AVP codes from 1518 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	
1606 Location-Area-Identity	OctetString	
1607 Service-Area-Identity	OctetString	
1608 Geographical-Information	OctetString	
1609 Geodetic-Information	OctetString	
1610 Current-Location-Retrieved	Enumerated	
1611 Age-Of-Location-Information	Unsigned32	
1612 Active-APN	Grouped	
1613 SIPTO-Permission	Enumerated	
1614 Error-Diagnostic	Enumerated	
1615 UE-SRVCC-Capability	Enumerated	
1616 MPS-Priority	Unsigned32	
1617 VPLMN-LIPA-Allowed	Enumerated	
1618 LIPA-Permission	Enumerated	
1619 Subscribed-Periodic-RAU-TAU-Timer	Unsigned32	
1620 Ext-PDP-Type	OctetString	
1621 Ext-PDP-Address	Address	
1622 MDT-Configuration	Grouped	
1623 Job-Type	Enumerated	
1624 Area-Scope	Grouped	
1625 List-Of-Measurements	Unsigned32	
1626 Reporting-Trigger	Unsigned32	00 070 1041
1627 Report-Interval	Enumerated	29.272 [21]
1628 Report-Amount	Enumerated	
1629 Event-ThresholdRSRP	Unsigned32	
1630 Event-ThresholdRSRQ	Unsigned32	
1631 Logging-Interval	Enumerated	
1632 Logging-Duration	Enumerated	
1633 Relay-Node-Indicator	Enumerated	
1634 MDT-User-Consent	Enumerated	
1635 PUR-Flags	Unsigned32	
1636 Reserved	Orisigneusz	
1637 Reserved	-	
	Lineigned22	
1638 CLR-Flags	Unsigned32	
1639 Reserved	-	
1640 Reserved	-	
1641 Reserved	-	
1642 Reserved	-	
1643 Reserved	-	
1644 Reserved	-	
1645 Reserved	-	
1646 Reserved	-	
1647 Reserved	-	
1648 Reserved	-	
1649 Reserved	-	
1650 Reserved	-	
1651 GMLC-Info	Grouped	
1652 GMLC-Name	DiameterIdentity	
1653 GMLC-Realm	DiameterIdentity	
Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272.		
2000 SMS-Information	Grouped	
2001 Data-Coding-Scheme	Integer32	
2002 Destination-Interface	Grouped	
2003 Interface-Id	UTF8String	
2004 Interface-Port	UTF8String	32.299 [5]
2005 Interface-Text		02.200 [0]
	ULLERString	
L2006 Unterface-Type	UTF8String Enumerated	
2006 Interface-Type	Enumerated	
2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address		

anna la contra de la contra del la contra del la contra del la contra de la contra del la contra de la contra de la contra del la contra		
2009 Originator-Interface	Grouped	
2010 Recipient-SCCP-Address 2011 Reply-Path-Requested	Address Enumerated	
2011 Reply-Path-Requested 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	
2023 Carrier-Select-Routing-Information	UTF8String	
2024 Number-Portability-Routing-Information	UTF8String	
2025 PoC-Event-Type	Enumerated	
2026 Recipient-Info	Grouped	
2027 Originator-Received-Address	Grouped	
2028 Recipient-Received-Address	Grouped	
2029 SM-Service-Type	Enumerated	
2030 MMTel-Information	Grouped	
2031 MMTel-Sservice-Type	Unsigned32	
2032 Service-Mode	Unsigned32	
2033 Subscriber-Role	Enumerated	
2034 Number-Of-Diversions	Unsigned32	
2035 Associated-Party-Address	UTF8String	
2036 SDP-Type 2037 Change-Condition	Enumerated Integer32	
2037 Change-Condition 2038 Change-Time	Time	
2039 Diagnostics	Integer32	
2040 Service-Data-Container	Grouped	
2041 Start-Time	Time	
2042 Stop-Time	Time	
2043 Time-First-Usage	Time	
2044 Time-Last-Usage	Time	
2045 Time-Usage	Unsigned32	
2046 Traffic-Data-Volumes	Grouped	
2047 Serving-Node-Type	Enumerated	
2048 Supplementary-Service	Grouped	
2049 Participant-Action-Type	Enumerated	
2050 PDN-Connection-Charging-ID	Unsigned32	
2051 Dynamic-Address-Flag	Enumerated	
2052 Accumulated-Cost	Grouped	
2053 AoC-Cost-Information	Grouped	
2054 AoC-Information	Grouped	
2055 AoC-Request-Type	Enumerated	
2056 Current-Tariff	Grouped	
2057 Next-Tariff	Grouped	
2058 Rate-Element	Grouped	
2059 Scale-Factor	Grouped	
2060 Tariff-Information	Grouped	
2061 Unit-Cost	Grouped	
2062 Incremental-Cost	Grouped	
2063 Local-Sequence-Number	Unsigned32	
2064 Node-Id	UTF8String	
2065 SGW-Change 2066 Charging-Characteristic-Selection-Mode	Enumerated Enumerated	
2066 Charging-Characteristic-Selection-Mode	Address	
2068 Dynamic-Address-Flag-Extension Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299	Enumerated	
2100 reserved		
2100 reserved 2101 Application-Server-ID	- UTF8String	
2101 Application-Server-1D 2102 Application-Service-Type	Enumerated	32.299 [5]
2103 Application-Service-Type 2103 Application-Session-ID	Unsigned32	
2 100 p application occosion in	Unsignedaz	

2104 Delivery-Status	UTF8String	
2105 reserved	-	
2106 reserved	-	
2107 reserved	-	
2108 reserved	-	
2109 reserved	-	
2110 IM-Information	Grouped	
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112 Number-Of-Messages-Successfully-Sent	Unsigned32	
2113 Total-Number-Of-Messages-Exploded	Unsigned32	
2114 Total-Number-Of-Messages-Sent	Unsigned32	
2115 DCD-Information	Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String	
2118 Charge-Reason-Code	Enumerated	
Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299		
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
2202 Subsession-Id	Unsigned32	29.215 [22]
2203 Subsession-Operation	Enumerated	
2204 Multiple-BBERF-Action	Enumerated	
Note: The AVP codes from 2205 to 2299 are reserved for TS 29.215		
2300 reserved	-	
2301 SIP-Request-Timestamp-Fraction	Unsigned32	
2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2303 Online-Charging-Flag	Enumerated	
2304 CUG-Information	OctetString	
2305 Real-Time-Tariff-Information	Grouped	
2306 Tariff-XML	UTF8String	
2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
2309 Account-Expiration	Time	
2310 AoC-Format	Enumerated	
2311 AoC-Service	Enumerated	32.299 [5]
2312 AoC-Service-Obligatory-Type	Grouped	02.299 [0]
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	-	
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator	Enumerated	
2323 MBMS-Charged-Party	Enumerated	
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299		
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets	Unsigned32	29.173 [25]
2405 GMLC-Address	Address	
2406 Additional-Serving-Node	Grouped	
2407 PPR-Address	Address	
2408 MME-Realm	DiameterIdentity	
Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173		
2500 SLg-Location-Type	Enumerated	
2501 LCS-EPS-Client-Name	Grouped	
2502 LCS-Requestor-Name	Grouped	
2503 LCS-Priority	Unsigned32	20 172 [24]
2504 LCS-QoS	Grouped	29.172 [24]
2505 Horizontal-Accuracy	Unsigned32	
2506 Vertical-Accuracy	Unsigned32	
2507 Vertical-Requested	Enumerated	
· · · · · · · · · · · · · · · · · · ·	•	

2508 Velocity-Requested	Enumerated	
2509 Response-Time	Enumerated	
2510 Supported-GAD-Shapes	Unsigned32	
2511 LCS-Codeword	UTF8String	
2512 LCS-Privacy-Check	Enumerated	
2513 Accuracy-Fulfilment-Indicator	Enumerated	
2514 Age-Of-Location-Estimate	Unsigned32	
2515 Velocity-Estimate	OctetString	
2516 EUTRAN-Positioning-Data	OctetString	
2517 ECGI	OctetString	
2518 Location-Event	Enumerated	
2519 Pseudonym-Indicator	Enumerated	
2520 LCS-Service-Type-ID	Unsigned32	
2521 LCS-Privacy-Check-Non-Session	Grouped	
2522 LCS-Privacy-Check-Session	Grouped	
2523 LCS-QoS-Class	Enumerated	
Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172		
2600 reserved	-	
2601 IMS-Application-Reference-Identifier	UTF8String	
2602 Low-Priority-Indicator	Enumerated	
2603 IP-Realm-Default-Indicator	Enumerated	32.299 [5]
2604 Local-GW-Inserted-Indicator	Enumerated	
2605 Transcoder-Inserted-Indicator	Enumerated	
2606 PDP-Address-Prefix-Length	Unsigned32	
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299		

8 Experimental result codes

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

8.1 3GPP specific result codes

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

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

8.1.1 Informational

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

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

8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

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

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	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.	
4121	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]
Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061.	
4141	DIAMETER_PCC_BEARER_EVENT	20 242 [40]
4142	DIAMETER_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	23.172 [24]
4225	DIAMETER_ERROR_POSITIONING_FAILED	
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT	
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.	

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	29.229 [2]
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	20.220 [2]
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010 5011	unassigned DIAMETER_ERROR_FEATURE_UNSUPPORTED	
		0.00.000
Note: The Expe	rimental Result Codes from 5012 to 5020 are reserved for the T	
		32.299 [5]
	rimental Result Codes from 5021 to 5040 are reserved for the T	S 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	29.234 [0]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER ERROR UNSUITABLE NETWORK	
Note: The Expe	rimental Result Codes from 5046 to 5060 are reserved for the T	S 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	29.209 [8],
	DUPLICATED_AF_SESSION	
5064		29.211 [17],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.214 [18]
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
Note: The Expe	rimental Result Codes from 5068 to 5080 are reserved for TS 29	9.209, TS 29.211
and ⁻	TS 29.214.	
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	1
5105	DIAMETER ERROR TRANSPARENT DATA	29.329 [4]
3103	OUT_OF_SYNC	
E406		
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	rimental Result Codes from 5109 to 5119 are reserved for the T	S 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]
	E	
5123	DIAMETER ERROR SERVICE AREA	1
	rimental Result Codes from 5124 to 5139 are reserved for the T	S 29.061.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER ERROR TRIGGER EVENT	1
5142	DIAMETER PCC RULE EVENT	
5143	DIAMETER_FOC_ROLE_EVENT DIAMETER ERROR BEARER NOT AUTHORIZED	
		20 242 [40]
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	29.212 [19]
F4.4F	DIAMETER OOS BUILE EVENT	-
5145	DIAMETER_QOS_RULE_EVENT	
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
Note: The Expe	rimental Result Codes from 5144 to 5159 are reserved for the T	S 29.212.
5401	DIAMETER_ERROR_IMPI_UNKNOWN	
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID]
	rimental Result Codes from 5404 to 5419 are reserved for the T	S 29,109.
5420	DIAMETER ERROR UNKNOWN EPS SUBSCRIPTION	29.272 [21]
		[]

5421	DIAMETER_ERROR_RAT_NOT_ALLOWED						
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN						
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE						
Note: The Expe	Note: The Experimental Result Codes from 5424 to 5449 are reserved for the TS 29.272.						
5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI						
	ON	29.273 [20]					
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	29.273 [20]					
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED						
Note: The Expe	Note: The Experimental Result Codes from 5453 to 5469 are reserved for the TS 29.273.						
5470	DIAMETER_ERROR _SUBSESSION	29.215 [22]					
Note: The Experimental Result Codes from 5471 to 5489 are reserved for the TS 29.215.							
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET	29.173 [25]					
ļ <u>.</u>	WORK						
Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173.							

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

code group for the application. The ranges will be informed to the corresponding working group and the tables in the chapter 8 of this specification will be updated to show the reserved ranges. The working group can use the allocated ranges as a working assumption when defining the actual result codes.

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

Deta	TCO."	TCC D	CD	D	Change history	Ol-l	Marc
Date	TSG #	TSG Doc.	CR	Kev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292	004		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			Removal of User Data Request Type AVP	6.0.0	6.1.0
2004-09	CN#25	NP-040412		1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26	NP-040579			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		1	Addition of Gmb interface	6.1.0	6.2.0
2004-12	CN#26	NP-040600	010	2	Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces	6.1.0	6.2.0
2004-12	CN#26	NP-040579	011		Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579	012		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		
	İ	NP-050039			Allocations for Gmb interface	i	
		NP-050039			Allocations for MMS, MM10 Interface	i	
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.3.0	6.4.0
2003 00	01#20	CP-050196		1	Addition of Maximum-Number-Accesses AVP	0.5.0	0.4.0
2005-09	CT#29	CP-050196		1	Private identities on the Cx	6.4.0	6.5.0
2000-09	01#28	CP-050440 CP-050310		-	Addition of Pr reference point to TS 29.230	0.4.0	0.5.0
		CP-050310 CP-050310				ł	
					Error code cleanup Addition of Rx ref. point and renaming of Experimental Result	{	
		CP-050310	0056		Codes	<u> </u>	
2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-12	CT#30	CP-050624	0058		Addition of GBA-Type AVP	7.0.0	7.1.0
		CP-050612	0063		Additional Gmb AVP Allocation	Ī	
		CP-050612	0065		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
2000 00	01#01	CP-060084			User-Data in the response to Sh-Subs-Notif	1	7.2.0
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure	1	
2006-06	CT#32	CP-060302			S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417		3	New AVP Code	7.3.0	7.4.0
2000-03	01#33	CP-060417		J	Errors to be sent in response to Sh-Notif	7.3.0	7.4.0
	l	CP-060417			Definition of specific Diameter codes for DSAI	ł	
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2006-12	C1#34			1		7.4.0	7.5.0
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	ļ	CP-060555				ł	
		CP-060555			AVP code allocations for Rf and Ro interfaces		
	07::07	CP-060566			Allocation of Success Result Code Range for Gi Interface		
2007-03	CT#35	CP-070020			C3 requested addition of new AVP code values to 3GPP TS 29.230	7.5.0	7.6.0
		CP-070020			Allocation of new AVP code for DSAI-Tag AVP	J	
		CP-070020			Allocation of Experimental-Result-Code AVP for Gi Interface	<u>L_</u>	
2007-06	CT#36	CP-070318	0096		Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312			Experimental-Result-Codes for Gmb interface	Ī	
		CP-070312			Correction of Diameter AVP code allocation	Ī	
2007-09	CT#37	CP-070527			Application ID for Gx protocol	7.7.0	7.8.0
2007-12	CT#38	CP-070743			AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
	000	0. 0.00	0105		Allocation of 3GPP specific AVP codes and Experimental	1.10.0	1.0.0
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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
			0103		AVP code reservation for 32.299 in Rel-8	Ī	
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		CP-080019			Wildcarded Public User Identities	i	
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		CP-080204			Correction on AVP code allocation reservation for TS 32.299		
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2008-09	CT#41	CP-080456			Emergency Public User Identity Removal	8.2.0	8.3.0
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2008-09	CT#41	CP-080460	0121		Support of Loose-Route indication from HSS		

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	}	CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"	1	
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2000 00	CT#45	CP-090299			S6b Application ID	0.00	0.7.0
2009-09	CT#45	CP-090530 CP-090530			Allocation of Experimental-Result-Codes for S9 protocol AVP code allocation for TS 29.212	8.6.0	8.7.0
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History

	Document history					
V10.2.0	April 2011	Publication				
V10.3.0	June 2011	Publication				
V10.4.0	October 2011	Publication				
V10.5.0	January 2012	Publication				
V10.6.0	April 2012	Publication				
V10.7.0	July 2012	Publication				
V10.8.0	October 2012	Publication				
V10.9.0	January 2013	Publication				
V10.10.0	July 2013	Publication				
V10.11.0	December 2013	Publication				
V10.12.0	July 2014	Publication				
V10.13.0	January 2015	Publication				
V10.14.0	April 2015	Publication				
V10.15.0	July 2015	Publication				