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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.
- 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: http://www.iana.org/assignments/enterprise-numbers
[12]	IANA"s AAA parameters register: ftp://ftp.iana.org/assignments/aaa-parameters/
[13]	3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".
[14]	3GPP TS 32.296: "Telecommunication management; Online Charging System (OCS): Applications and interfaces;".
[15]	3GPP TS 29.210: "Charging rule provisioning over Gx interface".
[16]	3GPP TS 29.140 Release 6: "Multimedia Messaging Service (MMS); MM10 interface based on

[17]	3GPP TS 29.211: "Rx Interface and Rx/Gx signalling flows".
[18]	3GPP TS 29.214: "Policy and Charging Control over Rx reference point".
[19]	3GPP TS 29.212: "Policy and Charging Control over Gx reference point".
[20]	3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces".
[21]	3GPP TS 29.272: "MME and SGSN Related Interfaces Based on Diameter Protocol".
[22]	3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point".
[23]	IETF RFC 5516: "Diameter Command Code Registration for Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)".
[24]	3GPP TS 29.172: "Location Services; EPC LCS Protocol (ELP) between the GMLC and the MME; SLg interface".
[25]	3GPP TS 29.173: "Location Services; Diameter-based SLh interface for Control Plane LCS".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply.

3GPP specific: A definition which is used in conjunction with the 3GPP"s vendor identifier.

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AVP Attribute-Value-Pair
CR Change Request

IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

The Diameter applications are identified with the application identifiers as specified in the RFC 3588 [9]. There are two kind of applications: IETF standards track applications and vendor specific applications. All application identifiers are assigned by IANA [12]. This chapter lists the application identifiers assigned by IANA to all 3GPP Diameter applications.

The application identifiers are transferred in Diameter command"s header in the Application-ID field.

4.1 3GPP specific application identifiers

The 3GPP specific application identifiers allocated by IANA are listed in the following table.

Table 4.1: 3GPP specific application identifiers

Application identifier	Application	3GPP TS
16777216	3GPP Cx/Px	29.228 [1] and 29.229 [2]
16777217	3GPP Sh/Ph	29.328 [3] and 29.329 [4]
16777218	3GPP Re	32.296 [14]
16777219	3GPP Wx	29.234 [6]
16777220	3GPP Zn	29.109 [7]
16777221	3GPP Zh	29.109 [7]
16777222	3GPP Gq	29.209 [8]
16777223	3GPP Gmb	29.061 [13]
16777224	3GPP Gx	29.210 [15]
16777225	3GPP Gx over Gy	29.210 [15]
16777226	3GPP MM10	29.140 [16]
16777229	3GPP Rx	29.211 [17]
16777230	3GPP Pr	29.234 [6]
16777236	3GPP Rx	29.214 [18]
16777238	3GPP Gx	29.212 [19]
16777250	3GPP STa	29.273 [20]
16777251	3GPP S6a	29.272 [21]
16777252	3GPP S13/S13"	29.272 [21]
16777255	3GPP SLg	29.172 [24]
16777264	3GPP SWm	29.273 [20]
16777265	3GPP SWx	29.273 [20]
16777266	3GPP Gxx	29.212 [19]
16777267	3GPP S9	29.215 [22]
16777268	3GPP Zpn	29.109 [7]
16777272	3GPP S6b	29.273 [20]
16777291	3GPP SLh	29.173 [25]
16777292	3GPP SGmb	29.061 [13]

5 Command codes

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

5.1 Command codes allocated for 3GPP

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

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

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

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

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

6 Vendor identifier

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

6.1 3GPP"s vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Cod e	Attribute Name	Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	
	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
	3GPP-WLAN-QoS-Filter-Support	OctetString	
Note:	The AVP codes from 1 to 255 are reserved for backwards compatik	oility with 3GPP RADIUS	Vendor Specific
Attrib	utes (See TS 29.061 [13] and TS 29.234 [6])		
Note:	The AVP codes from 256 to 299 are reserved for future use.		
300	Authentication-Method	Enumerated	
301	Authentication-Information-SIM	OctetString	
302	Authorization -Information-SIM	OctetString	
303	WLAN-User-Data	Grouped	
304	Charging-Data	Grouped	
	WLAN-Access	Enumerated	1
	WLAN- 3GPP-IP-Access	Enumerated	1
	APN-Authorized	Grouped	1
	APN-Id	•	1
	APN-Barring-Type	Enumerated	00 00 4 701
	WLAN-Direct-IP-Access	Enumerated	29.234 [6]
	Session-Request-Type	Enumerated	1
	Routing-Policy	IPFilterRule	1
	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	4
			4
	Maximum-Number-Accesses The AVP codes from 320 to 399 are reserved for TS 29.234	Unsigned32	
	GBA-UserSecSettings	OctetString	
	Transaction-Identifier	OctetString	
402	NAF-Hostname	OctetString	╡
	GAA-Service-Identifier	OctetString	
404	Key-ExpiryTime	Time	1
	ME-Key-Material	OctetString	
	UICC-Key-Material	OctetString	_
407	GBA_U-Awareness-Indicator	Enumerated	
408	BootstrapInfoCreationTime GUSS-Timestamp	Time Time	
	GBA-Type	Enumerated	29.109 [7]
	UE-Id	OctetString	29.103[1]
	UE-Id-Type	Enumerated	1
413	UICC-App-Label	OctetString	1
414	UICC-MÉ	Enumerated	
	Requested-Key-Lifetime	Time]
	Private-Identity-Request	Enumerated	_
417	GBA-Push-Info	OctetString	4
418	NAF-SA-Identifier	OctetString	4
	Security-Feature-Request Security-Feature-Response	OctetString OctetString	-
	The AVP codes from 421 to 499 are reserved for TS 29.109	Octetating	
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address		-
		Address	-
	Access-Network-Charging-Identifier	Grouped	29.209 [8],
	Access-Network-Charging-Identifier-Value	OctetString	29.211 [17] ,
	AF-Application-Identifier	OctetString	29.214 [18]
	AF-Charging-Identifier	OctetString	-
	Authorization-Token	OctetString	4
507	Flow-Description	IPFilterRule	<u> </u>

Sob Flow-Number				
10 10 10 10 10 10 10 10				
1911 Flow-Status				
STATE Flow-Usage	510	Flows	Grouped	
Specific-Action	511	Flow-Status	Enumerated	
STATE Max-Requested-Bandwidth	512	Flow-Usage	Enumerated	
STE Max-Requested-Bandwidth-UL	513	Specific-Action	Enumerated	
STE Max-Requested-Bandwidth-UL	514	Max-Requested-Bandwidth	Unsigned32	
STP Max-Requested-Bandwidth-UL				
STP Media-Component-Description Grouped				
Bedia Component AVP				
Section				
Second S				
SEZ RR-Bandwidth				
S22 RS-Bandwidth				
Sign				
E24 Codec-Data OctetString				
Sezione-URN				
S26			OctetString	
	525	Service-URN	OctetString	
Face	526	Acceptable-Service-Info	Grouped	
Face			Enumerated	
AF-Signalling-Protocol Enumerated			-	
Note: The AVP codes from 530 to 599 are reserved for TS 29.209, TS 29.211 and TS 29.214			Enumerated	
Foot Public-Identity UTF8String				
Foot Bublic-Identity Butter But				
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-Authorization OctetString 611 SIP-Authorization OctetString 612 SIP-Auth-Data-Item OctetString 613 SIP-Item-Number Unsigned32 614 Server-Assignment-Type Enumerated 615 Deregistration-Reason Grouped 616 Reason-Code Enumerated 617 Reason-Info UTF8String 618 Charging-Information Grouped 619 Primary-Event-Charging-Function-Name DiameterURI 620 Secondary-Event-Charging-Function-Name DiameterURI 621 Pr				
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E05 Optional-Capability Unsigned32				
Cote				
607 SIP-Number-Auth-Items				
608 SIP-Authentication-Scheme CotetString Gorgin SIP-Authenticate CotetString Gorgin SIP-Authenticate CotetString Gorgin SIP-Authentication CotetString Gorgin SIP-Authentication-Context CotetString Gorgin SIP-Authentication-Context CotetString Gorgin SIP-Item Corpused Gorgin SIP-Item-Number CotetString Gorgin SIP-Item-Number CotetString Gorgin CotetStri	606	User-Data	OctetString	
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640 Path OctetString				
641 Contact OctetString				
	641	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	
	The AVP codes from 652 to 699 are reserved for TS 29.229.	1 1	
	User-Identity	Grouped	
	MSISDN	OctetString	
	User-Data	OctetString	
	Data-Reference	Enumerated	
	Service-Indication	OctetString	
	Subs-Req-Type	Enumerated	
	Requested-Domain	Enumerated	29.329 [4]
	Current-Location	Enumerated	
	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	
	One-Time-Notification	Enumerated	
	Requested-Nodes	Unsigned32	
Note:	The AVP codes from 714 to 799 are reserved for TS 29.329.		
Note:	The AVP codes from 800 to 822 are reserved for TS 32.299.		
	Event-Type	Grouped	
	SIP-Method	UTF8String	
	Event	UTF8String	
	Content-Type	UTF8String	
	Content-Length	Unsigned32	
	Content-Length Content-Disposition	UTF8String	
	Role-of-Node		
		Enumerated	
	User-Session-Id	UTF8String	
	Calling-Party-Address	UTF8String	
	Called-Party-Address	UTF8String	
	Time-Stamps	Grouped	
	SIP-Request-Timestamp	Time	
	SIP-Response-Timestamp	Time	
	Application-Server	UTF8String	
837	Application-provided-called-party-address	UTF8String	
838	Inter-Operator-Identifier	Grouped	
839	Originating-IOI	UTF8String	
	Terminating-IOI	UTF8String	
	IMS-Charging-Identifier	UTF8String	00.000 [=]
	SDP-Session-Description	UTF8String	32.299 [5]
	SDP-Media-Component	Grouped	
	SDP-Media-Name	UTF8String	
	SDP-Media-Name SDP-Media-Description	UTF8String	
	CG-Address	Address	
	GGSN-Address	Address	
	Served-Party-IP-Address	Address	
	Authorized-QoS	UTF8String	
	Application-Server-Information	Grouped	
	Trunk-Group-Id	Grouped	
	Incoming-Trunk-Group-Id	UTF8String	
	Outgoing-Trunk-Group-Id	UTF8String	
	Bearer-Service	OctetString	
	Service-Id	UTF8String	
856	Associated-URI	UTF8String	
857	Charged-Party	UTF8String	
	PoC-Controlling-Address	UTF8String	
	PoC-Group-Name	UTF8String	
	Cause	Grouped	
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B82 Node-Functionality	004	0 0 1	1	
B683 Service-Specific-Data UTF8String			Integer32	
B64 Originator				
B65 PS-Furnish-Charging-Information Grouped			- U	
886 PS-Free-Format-Data				
SEP PS-Append-Free-Format-Data Enumerated			Grouped	
868 Volume-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 874 PS-Information Grouped 875 MS-Information Grouped 877 MMS-Information Grouped 878 Information Grouped 879 Po-C-Information Grouped 879 Po-C-Information Grouped 887 Po-C-Information Grouped 887 Po-C-Information Grouped 881 Quota-Consumption-Time Unsigned32 882 Media-Information Grouped 883 Po-C-Server-Role Enumerated 884 Po-C-Server-Role Enumerated 885 Number-OI-Participants Unsigned32 886 Portignate-Involved Unsigned32 887 Participants-Involved Unsigned32 888 Expires Unsigned32 889 Wasage-Body Grouped 890 Wasage-Body Grouped <td>866</td> <td>PS-Free-Format-Data</td> <td>OctetString</td> <td></td>	866	PS-Free-Format-Data	OctetString	
868 Volume-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 874 PS-Information Grouped 875 MS-Information Grouped 877 MMS-Information Grouped 878 Information Grouped 879 Po-C-Information Grouped 879 Po-C-Information Grouped 887 Po-C-Information Grouped 887 Po-C-Information Grouped 881 Quota-Consumption-Time Unsigned32 882 Media-Information Grouped 883 Po-C-Server-Role Enumerated 884 Po-C-Server-Role Enumerated 885 Number-OI-Participants Unsigned32 886 Portignate-Involved Unsigned32 887 Participants-Involved Unsigned32 888 Expires Unsigned32 889 Wasage-Body Grouped 890 Wasage-Body Grouped <td>867</td> <td>PS-Append-Free-Format-Data</td> <td></td> <td></td>	867	PS-Append-Free-Format-Data		
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1870 Trigger-Type				
877 Quota-Holding-Time				
872 Reporting-Reason	070	Ouete Helding Time		
873 Service-Information Grouped	0/1	Quota-notating-time		
RFS-Information		1 0		
BYS MLAN-Information				
B76 IMS-Information	874	PS-Information	Grouped	
BATT MMS-Information Grouped	875	WLAN-Information	Grouped	
BTT MMS-Information	876	IMS-Information	Grouped	
B78 LCS-Information	877	MMS-Information		
B79 PoC-Information				
B80 MBMS-Information Grouped				
B81 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-Technology Unsigned32 895 PDC-Address Address 896 PDC-Address Address 897 PDG-Address Address 898 PDG-Address-Domain Grouped 899 PDG-Maddress-Domain Grouped 899 PDG-Maddress-Domain Grouped 890 PDG-Maddress-Domain Grouped 891 Required-MBMS-Bearer-Capabilities UTF8String 900 TMGI Required-MBMS-Bearer-Capabilities UTF8String 901 MBMS-Service-Area OctedString 902 MBMS-Service-Area OctedString<				
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B87 Participants-Involved	885	Number-Of-Participants	Unsigned32	
B87 Participants-Involved				
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893 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 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-Service-Type Enumerated 908 MBMS-Session-Identity OctetString 909 RAI UTF8String 910 Additional-MBMS-Trace-Info OctetString 911 MBMS-Gish-Gendentity-Repetition-Number Unsigned32 912 MBMS-Session-Identity-Repetition-Number Unsigned32 913 MBMS-Counting-Information Enumerated 914 MBMS-Gosh-Address UTF8String 91				
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B97 Address-Data	895	PDG-Address	Address	
B97 Address-Data			Unsigned32	
B98 Address-Domain Grouped				
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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 912 MBMS-Required-QoS UTF8String 914 MBMS-Counting-Information Enumerated 915 MBMS-User-Data-Mode-Indication Enumerated 916 MBMS-GGSN-IPv6-Address UTF8String 917 MBMS-GGSN-IPv6-Address UTF8String 918 MBMS-BMSC-SSM-IPv6-Address UTF8String 919 MBMS-BMSC-SSM-IPv6-Address UTF8String 910 MBMS-How-Indicator Enumerated 922 MBMS-How-Indicator Enumerated 923 MBMS-Access-Indicator Enumerated	099	Address-Type	Enumerated	
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923 MBMS-Access-Indicator Enumerated				
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	923	MBMS-Access-Indicator		
Outdoomid			OctetString	

925 MBMS-GW-SSM-IPv6-Address	Octotetring	
926 MBMS-BMSC-SSM-UDP-Port	OctetString 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	Litumerated	
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	
1027 IP-CAN-Type	Enumerated	
1028 QoS-Class-Identifier	Enumerated	
1029 QoS-Negotiation	Enumerated	
1030 QoS-Upgrade	Enumerated	
1031 Rule-Failure-Code	Enumerated	29.212 [19]
1032 RAT-Type	Enumerated	29.212[19]
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 1048 Pre-emption-Vulnerability	Enumerated Enumerated	
1048 Pre-emption-vulnerability 1049 Default-EPS-Bearer-QoS	Grouped	
1049 Deladit-EPS-Bealer-QoS 1050 AN-GW-Address	Address	
1050 AN-GW-Address 1051 QoS-Rule-Install	Grouped	
1051 Q0S-Rule-Install 1052 QoS-Rule-Remove	Grouped	
1052 Q03-Rule-Remove 1053 QoS-Rule-Definition	Grouped	
1053 Q03-Rule-Definition 1054 QoS-Rule-Name	OctetString	
1054 Q03-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	
1064 Session-Linking-Indicator	Enumerated	
1065 PDN-Connection-ID	OctetString	
1066 Monitoring-Key	OctetString	
1067 Usage-Monitoring-Information	Grouped	
1068 Usage-Monitoring-Level	Enumerated	
1069 Usage-Monitoring-Report	Enumerated	
1070 Usage-Monitoring-Support	Enumerated	
1071 CSG-Information-Reporting	Enumerated	
1072 Packet-Filter-Usage	Enumerated	
1073 Charging-Correlation-Indicator	Enumerated	
1074 QoS-Rule-Base-Name	UTF8String	
1075 reserved	e ir ceanig	
1076 reserved		
1077 reserved		
1078 reserved		
1079 reserved		
1080 Flow-Direction	Enumerated	
Note: The AVP codes from 1081 to 1099 are reserved for TS 29.212		
1100 Served-User-Identity	Groupe	
1101 VASP-ID	UTF8Str	
1102 VAS-ID	UTF8String	
1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address	Grouped	
1106 Result-Recipient-Address	Grouped	
1107 Sequence-Number	Unsigned32	
1108 Recipient-Address	UTF8String	
1109 Routeing-Address	UTF8String	29.140 [16]
1110 Originating-Interface	Enumerated	
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key	UTF8String	
1115 Billing-Information	UTF8String	
1116 Status	Grouped	
1117 Status-Code	UTF8String	
1118 Status-Text	UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	011 ostilig	
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	32.299 [5]
1213 Message-Class	Grouped	
1214 Class-Identifier	Enumerated	
1215 Token-Text	UTF8String	
1216 Delivery-Report-Requested	Enumerated	
1217 Adaptations	Enumerated	
1218 Applic-ID	UTF8String	
1219 Aux-Applic-Info	UTF8String	
1220 Content-Class	Enumerated	
1221 DRM-Content	Enumerated	
1222 Read-Reply-Report-Requested	Enumerated	
1223 Reply-Applic-ID	UTF8String	
1224 File-Repair-Supported	Enumerated	
122 H to Nopali Supported	Litanieratea	

1225 MBMS-User-Service-Type	Enumerated	
	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	
1233 LCS-Client-Dialed-By-MS	UTF8String	
1234 LCS-Client-External-ID	UTF8String	
1235 LCS-Client-Name	Grouped	
1236 LCS-Data-Coding-Scheme	UTF8String	
1237 LCS-Format-Indicator	Enumerated	
1238 LCS-Name-String	UTF8String	
1239 LCS-Requestor-Id	Grouped	
1240 LCS-Requestor-Id-String	UTF8String	
1241 LCS-Client-Type	Enumerated	
1242 Location-Estimate	OctetString	
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	
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	l 011 ooting	
INDIE. THE AVI COURS HOTH 1203 TO 1033 ARE RESERVED TO 12 32.299		

1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	
1403 Software-Version	UTF8String	
1404 QoS-Subscribed	UTF8String	
1405 ULR-Flags	Unsigned32	
1406 ULA-Flags	Unsigned32	
1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info	OctetString	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped Grouped	
1410 Number-Of-Requested-Vectors	Unsigned32	
1411 Re-Synchronization-Info	OctetString	
1412 Immediate-Response-Preferred	Unsigned32	
1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	
1417 Network-Access-Mode	Enumerated	
1418 HPLMN-ODB	Enumerated	
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
1426 Access-Restriction-Data	UTF8String	
1427 APN-OI-Replacement	UTF8String	
1428 All-APN-Configurations-Included-Indicator	Enumerated	
1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile	Grouped	
1432 VPLMN-Dynamic-Address-Allowed	Enumerated	29.272 [21]
1433 STN-SR	OctetString	
1434 Alert-Reason	Enumerated	
1435 AMBR	Grouped	
1436 CSG-Subscription-Data	Grouped	
1437 CSG-Id 1438 PDN-GW-Allocation-Type	Unsigned32 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	<u> </u>	
1452 Trace-Collection-Entity	Address	
1453 Kc	OctetString	
1454 SRES	OctetString	
1455 Reserved	-	
1456 PDN-Type	Enumerated	
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated	
1458 Trace-Data	Grouped	
1459 Trace-Reference	OctetString	
1460 Reserved	-	
1461 Reserved		
1462 Trace-Depth	Enumerated	
1463 Trace-NE-Type-List	OctetString	
1464 Trace-Interface-List	OctetString	

1465 MAC-14	A 40E T	T 0 + +0+ :	
1467 (GPRS-Subscription-Data Grouped	1465 Trace-Event-List	OctetString	
1468 POP-Context			
1409 POP-Context			
1471 3CPP-Ype			
1471 3CPP2-MEID			
1472 Specific-APN-Info			
1473 CS-Info			
1471 1475	1472 Specific-APN-Info	Grouped	
1475 S.Code	1473 LCS-Info	Grouped	
1475 S.Code	1474 GMLC-Number	OctetString	
1476 SS-Code	1475 LCS-PrivacyException		
1477 SS-Status			
1478 Notification-To-UE-User			
1479 External-Client Grouped			
1480 Client-Identity			
Hast GMLC-Restriction Enumerated Hast Service-Type Grouped Grouped Grouped Hast Service-Type Grouped Hast Service-Type Grouped Hast Service-Type Grouped Hast Service-Type Grouped Hast Grouped Hast			
1482 PLMN-Client			
1483 Service-Type			
1484 Service TypeIdentity			
1486 Teleservice-List Grouped 1486 Teleservice-List Grouped 1487 TS-Code Enumerated 1488 Call-Barring-Infor-List Grouped 1488 Call-Barring-Infor-List Grouped 1489 SGSN-Number OctetString 1490 IDR-Flags Unsigned32 1491 ICS-Indicator Enumerated 1492 IMS-Voice-Over-PS-Sessions-Supported Enumerated 1492 IMS-Voice-Over-PS-Sessions-Supported Enumerated 1493 Immogeneous-Support-of-IMS-Voice-Over-PS-Sessions Enumerated 1494 Last-Us-Activity-Time Time Time Time 1495 EPS-User-State Grouped 1496 EPS-Location-Information Grouped 1496 EPS-Location-Information Grouped 1498 User-State Grouped 1498 User-State Grouped 1499 User-State Enumerated 1500 Non-3GPP-User-Data Grouped 1500 Non-3GPP-User-Data Enumerated 1501 Non-3GPP-IP-Access Enumerated 1502 Non-3GPP-IP-Access Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF85tring 1505 Trace-Info Grouped 1506 MIP-FA-RK-SPI Unsigned32 1507 MIP-FA-RK-SPI Unsigned32 Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Tacking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1606 Coation-Area-Identity OctetString 1606 Coation-Area-Identity OctetString 1607 Grouped 1617 Active-APN Grouped 1618 Reserved -			
1486 Teleservice-List			
1487 TS-Code			
1488 Call-Barring-Infor-List		-	
1489 GSSN-Number			
1490 IDR-Flags			
1491 ICS-Indicator	1489 SGSN-Number		
1491 ICS-Indicator	1490 IDR-Flags	Unsigned32	
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	1491 ICS-Indicator	Enumerated	
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions			
1494 Last-UE-Activity-Time			
1495 EPS-User-State Grouped 1496 EPS-Location-Information Grouped 1497 MMC-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 Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF8String 1505 Trace-Info Grouped 1506 MIP-FA-RK OctetString 1506 MIP-FA-RK-SPI Unsigned32 Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information Grouped 1601 SGSN-Location-Information Grouped 1602 EUTRAN-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 1609 Geodetic-Information OctetString 1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 Reserved - 1614 Error-Diagnostic Enumerated 1616 Reserved - 1617 Reserved - 1618 Reserved - 1618 Reserved - 1618 Reserved -			
1496 EPS-Location-Information Grouped 1497 MME-User-State Grouped 1498 SGSN-User-State Grouped 1499 User-State Enumerated 1500 Non-3GPP-User-Data Enumerated 1501 Non-3GPP-IP-Access Enumerated 1502 Non-3GPP-IP-Access Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF8String 1505 Trace-Info Grouped 1506 MIP-FA-RK OctetString 1507 MIP-FA-RK-SPI Unsigned32 Note: The AVP codes from 1508 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 Rosting-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Geographical-Information OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString 1609 Geodetic-Information OctetString 1601 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -			
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 Note: The AVP codes from 1508 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 Cocation-Area-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString 1600 Geodetic-Information OctetString 1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -			
1498 SGSN-User-State	1490 ET 3-Eocation-information		
1500 Non-3GPP-User-Data Grouped	1407 MME Licar State	Grouped	
1500 Non-3GPP-User-Data Grouped			
1501 Non-3GPP-IP-Access	1498 SGSN-User-State	Grouped	
1501 Non-3GPP-IP-Access	1498 SGSN-User-State	Grouped	
1502 Non-3GPP-IP-Access-APN	1498 SGSN-User-State 1499 User-State	Grouped Enumerated	
1503 AN-Trusted	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data	Grouped Enumerated Grouped	
1504 ANID	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access	Grouped Enumerated Grouped Enumerated	
1505 Trace-Info Grouped	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN	Grouped Enumerated Grouped Enumerated Enumerated	
1506 MIP-FA-RK	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted	Grouped Enumerated Grouped Enumerated Enumerated Enumerated Enumerated	29,273 [20]
1507 MIP-FA-RK-SPI	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String	29.273 [20]
Note: The AVP codes from 1508 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 Routing-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 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped	29.273 [20]
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 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - 1618 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString	29.273 [20]
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 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString	29.273 [20]
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 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32	29.273 [20]
1603Tracking-Area-IdentityOctetString1604Cell-Global-IdentityOctetString1605Routing-Area-IdentityOctetString1606Location-Area-IdentityOctetString1607Service-Area-IdentityOctetString1608Geographical-InformationOctetString1609Geodetic-InformationOctetString1610Current-Location-RetrievedEnumerated1611Age-Of-Location-InformationUnsigned321612Active-APNGrouped1613Reserved-1614Error-DiagnosticEnumerated1615Reserved-1616Reserved-1617Reserved-1618Reserved-	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped	29.273 [20]
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 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped	29.273 [20]
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 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped OctetString	29.273 [20]
1605Routing-Area-IdentityOctetString1606Location-Area-IdentityOctetString1607Service-Area-IdentityOctetString1608Geographical-InformationOctetString1609Geodetic-InformationOctetString1610Current-Location-RetrievedEnumerated1611Age-Of-Location-InformationUnsigned321612Active-APNGrouped1613Reserved-1614Error-DiagnosticEnumerated1615Reserved-1616Reserved-1617Reserved-1618Reserved-	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped OctetString	29.273 [20]
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 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped OctetString OctetString OctetString	29.273 [20]
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 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped Grouped OctetString OctetString OctetString	29.273 [20]
1608 Geographical-InformationOctetString1609 Geodetic-InformationOctetString1610 Current-Location-RetrievedEnumerated1611 Age-Of-Location-InformationUnsigned321612 Active-APNGrouped1613 Reserved-1614 Error-DiagnosticEnumerated1615 Reserved-1616 Reserved-1617 Reserved-1618 Reserved-	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1605 Routing-Area-Identity	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped Grouped OctetString OctetString OctetString OctetString	29.273 [20]
1609 Geodetic-Information OctetString 1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped Grouped OctetString OctetString OctetString OctetString OctetString	29.273 [20]
1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped Grouped OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString	29.273 [20]
1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped OctetString	
1612 Active-APN Grouped 1613 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped OctetString	
1613 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information 1610 Current-Location-Retrieved	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped OctetString	
1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped OctetString	
1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped OctetString	
1616 Reserved - 1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped OctetString	
1617 Reserved - 1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved 1614 Error-Diagnostic	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated	
1618 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Geographical-Information 1609 Geodetic-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved 1614 Error-Diagnostic 1615 Reserved	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped OctetString CotetString OctetString OctetString Enumerated Unsigned32 Grouped - Enumerated	
	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved 1614 Error-Diagnostic 1615 Reserved 1616 Reserved	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped OctetString Enumerated Unsigned32 Grouped Enumerated	
1619 Reserved -	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved 1614 Error-Diagnostic 1615 Reserved 1616 Reserved 1617 Reserved	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped OctetString Enumerated Unsigned32 Grouped Enumerated	
	1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved 1614 Reserved 1616 Reserved 1617 Reserved 1617 Reserved 1618 Reserved	Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped OctetString Enumerated Unsigned32 Grouped Enumerated	

1620 Ext-PDP-Type	OctetString	
1621 Ext-PDP-Address	Address	
1622 Reserved	- Address	
1623 Reserved	-	
1624 Reserved	-	
1625 Reserved	-	
1626 Reserved	-	
1627 Reserved	-	
1628 Reserved	-	
1629 Reserved	-	
1630 Reserved	-	
1631 Reserved	-	
1632 Reserved	-	
1633 Reserved	-	
1634 Reserved	-	
1635 Reserved	-	
1636 Reserved	-	
1637 Reserved	- Lineiane d22	
1638 CLR-Flags 1639 Reserved	Unsigned32	
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 2005 Interface-Text	UTF8String UTF8String	
2006 Interface-Type	Enumerated	
2007 SM-Message-Type	Enumerated	
2008 Originating-SCCP-Address	Address	
2009 Originator-Interface	Grouped	
2010 Recipient-SCCP-Address	Address	
2011 Reply-Path-Requested	Enumerated	
2012 SM-Discharge-Time	Time	
2013 SM-Protocol-ID	OctetString	
2014 SM-Status	OctetString	22 200 [E]
2015 SM-User-Data-Header	OctetString	32.299 [5]
2016 SMS-Node	Enumerated	
2017 SMSC-Address	Address	
2018 Client-Address	Address	
2019 Number-of-Messages-Sent	Unsigned32	
2020 Low-Balance-Indication	Enumerated	
2021 Remaining-Balance	Grouped	
2022 Refund-Information	OctetString	
2023 Carrier-Select-Routing-Information	UTF8String	
2024 Number-Portability-Routing-Information	UTF8String	
2025 PoC-Event-Type	Enumerated	
2026 Recipient-Info	Grouped	
2027 Originator-Received-Address	Grouped	
2028 Recipient-Received-Address 2029 SM-Service-Type	Grouped Enumerated	
[2023 OIVI-OEI VICE- I YPE	Enumerated	

2007 Service-Type	2030 MMTel-Information	Grouped	
2032 Service-Mode			
2033 Subscriber-Role			
2034 Number-Of-Diversions			
2038 SSP-179e			
2036 SDP-Type			
2037 Change-Condition Integer32 2038 Change-Diller Time Time 2039 Diagnostics Integer32 2040 Service Data-Container Grouped 2041 Start-Time Time 2042 Stop-Time Time 2042 Stop-Time Time 2043 Time-First-Usage Time 2044 Time-Last-Usage Time 2044 Time-Last-Usage Time 2045 Time-Usage Unsigned32 2046 Tiaffic-Data-Volumes Grouped 2047 Serving-Node-Type Enumerated 2048 Supplementary-Service Grouped 2049 Participant-Action-Type Enumerated 2049 Participant-Action-Type Enumerated 2050 PDN-Connection-Charging-Id Unsigned32 2051 Dynamic-Address-Flag Enumerated 2052 Accumulated-Cost Grouped 2053 Ac-Cost-Information Grouped 2054 Accumulated-Cost Grouped 2055 Ac-Request-Type Enumerated 2055 Ac-Request-Type Enumerated 2056 Ac-Request-Type Enumerated 2057 Mext-Tariff Grouped 2058 Rate-Element Grouped 2059 State-Factor Grouped 2059 State-Factor Grouped 2060 Tariff-Information Grouped 2061 Diric-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8-String 2065 Charging-Characteristic-Selection-Mode Enumerated 2067 Sig-W-Address Address 2068 Node-Id UTF8-String 2100 Reserved 2101 Application-Service-Type Enumerated 2069 Charging-Characteristic-Selection-Mode Enumerated 2061 Participant-Service-Type Enumerated 2062 Charging-Characteristic-Selection-Mode Enumerated 2063 Local-Sequence-Number Unsigned32 2104 Delivery-Status UTF8-String 2105 Charging-Characteristic-Selection-Mode Grouped 2106 Charging-Characteristic-Selection-Mode Grouped 2107 Cortent-Dimension Grouped 2108 Signeserved 2110 Cortent-Tyrovider-ID UTF8-String 2111 Number-Of-Messages-Successfully-Sent Unsigned32 2112 Total-Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Successfully-Sent U			
2038 Change-Time			
2039 Diagnostics			
2040 Slart.Time			
2041 Start-Time			
2042 Stop-Time			
Description			
2044 Time-Last-Usage			
2045 Time-Usage		Time	
2046 Traffic-Data-Volumes	2044 Time-Last-Usage	Time	
2048 Supplementary-Service Grouped	2045 Time-Usage	Unsigned32	
2048 Supplementary-Service	2046 Traffic-Data-Volumes	Grouped	
2048 Supplementary-Service			
2049 Participant-Action-Type Enumerated 2050 PDN-Connection-Charging-Id Unsigned32 2051 Dynamic-Address-Flag Enumerated 2052 Accumulated-Cost Grouped 2053 AoC-Request-Type Enumerated 2054 AoC-Information Grouped 2054 AoC-Information Grouped 2055 AoC-Request-Type Enumerated 2056 Current-Tariff Grouped 2057 Next-Tariff Grouped 2058 Rate-Element Grouped 2058 Rate-Element Grouped 2059 Sate-Flactor Grouped 2059 Sate-Flactor Grouped 2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved - Unsigned32 2101 Application-Service-Type Enumerated 2101 Application-Service-Type Enumerated 2103 Application-Service-Type Enumerated 2104 Delivery-Status UTF8String 2105 reserved - 2106 reserved - 2107 reserved - 2106 reserved - 2108 reserved - 2109 reserved - 2109 reserved - 2109 reserved - 2109 reserved - 2101 Application-Service-Type Enumerated - 2101 Polyeny-Status UTF8String 2101 Enumerated - 2101 Polyeny-Status UTF8String 2101 Polyeny-Status UTF8String 2101 Polyeny-Status Unsigned32 2113 Total-Number-Of-Messages-Successfully-Exploded Unsigned32 2114 Total-Number-Of-Messages-Service-Service-Type 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-ID UTF8String 2118 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info Grouped 2			
2050 PDN-Connection-Charging-Id			
2051 Dynamic-Address-Flag			
2005 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 2057 Next-Tariff Grouped 2058 Rate-Element Grouped 2059 Scale-Factor Grouped 2050 Carle-Factor Grouped 2050 Carle-Factor Grouped 2061 Unit-Cost Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UJF8String 2065 SGW-Change Enumerated Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 1			
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 Rate-Element Grouped 2059 Scale-Factor Grouped 2050 Tariff-Information Grouped 2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Address Address 2009 Tariff-String 2010 reserved -			
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 2050 Care-Factor Grouped 2050 Care-Factor Grouped 2051 Unit-Cost Grouped 2052 Incremental-Cost Grouped 2053 Local-Sequence-Number Unsigned32 2064 Node-Id UJF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 Ireserved 2101 Application-Server-ID UJF8String 2102 Application-Server-ID UJF8String 2103 Application-Server-ID UJF8String 2104 Application-Server-ID UJF8String 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2109 reserved 2109 reserved 2109 reserved 2101 Number-Of-Messages-Successfully-Sent Unsigned32 2114 IN-Information Grouped 2111 Number-Of-Messages-Successfully-Sent Unsigned32 2114 Total-Number-Of-Messages-Successfully-Sent Unsigned32 2114 Total-Number-Of-Messages-Successfully-Sent Unsigned32 2114 Total-Number-Of-Messages-Successfully-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UJF8String 2117 Content-IP UJF8String 2118 Total-Number-Of-Messages-Successfully-Sent Unsigned32 2119 DCD-Information Grouped 2200 Subsession-Decision-Info Grouped 2201 Subsession-Decision-Info Grouped 2202 Subsession-Decision-Info Grouped 2203 Subsession-Decision-Info Grouped 2204 Multiple-BBERF-Action Enumerated 2204 Multiple-BBERF-Action Enumerated 2204 Multiple-BBERF-Action Enumerated			
2056 Current-Tariff Grouped			
2056 Current-Tariff Grouped 2057 Next-Tariff Grouped 2058 Rate-Element Grouped 2059 Rate-Element Grouped 2059 Cate-Factor Grouped 2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Charging-Characteristic-Selection-Mode Enumerated 2068 Charging-Characteristic-Selection-Mode Enumerated 2069 SgW-Change Enumerated 2060 Tariff-Information UTF8String 2100 reserved - 2101 Application-Servier-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Sersion-ID Unsigned32 2104 Delivery-Status UTF8String 2105 reserved - 2106 reserved - 2107 reserved - 2108 reserved - 2109 reserved - 2109 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-Successfully-Sent Unsigned32 2114 Total-Number-Of-Messages-Successfully-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-ID UTF8String 2117 Content-ID UTF8String 2117 Content-ID UTF8String 2118 Unsigned32 2201 Subsession-Decision-Info Grouped 2202 Subsession-Decision-Info Grouped 2203 Subsession-Decision-Info Grouped 2204 Multiple-BEERF-Action Enumerated 2204 Multiple-BEERF-Action Enumerated 2204 Multiple-BEERF-Action Enumerated 2204 Multiple-BEERF-Action Enumerated 2205 Marchard Carlon Enumerated 2206 Marchard Carlon Enumerated 2207 Subsession-Paration Enumerated 2208 Subsession-Paration Enumerated 2209 Subsession-Paration Enumerated 2200 Subsession-Paration Enumerated 2201			
2058 Rate-Element Grouped 2058 Rate-Element Grouped 2059 Scale-Factor Grouped 2060 Unit-Cost Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved - UTF8String 2101 Application-Service-Type Enumerated 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String 2105 reserved - UTF8String 2106 reserved - UTF8String 2107 reserved - UTF8String 2108 reserved - UTF8String 2109 reserved - UTF8String 2101 Application-Session-ID Unsigned32 2107 reserved - UTF8String 2108 reserved - UTF8String 2109 reserved - UTF8String 2101 INIMPER-OF-Messages-Successfully-Exploded Unsigned32 2110 INIMPER-OF-Messages-Successfully-Sent Unsigned32 2111 INIMPER-OF-Messages-Successfully-Sent Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Sent Unsigned32 2114 Content-ID UTF8String 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-IP UTF8String 2118 UTF8String UTF8String 2119 UTF8String UTF8String 2110 UTF8String UTF8String 2111 UTF8String UTF8String 2112 Unsigned32 Unsigned32 2203 Subsession-Decision-Info Grouped 2204 Multiple-BBERF-Action Enumerated 2204 Multiple-BBERF-Action Enumerated 2204 Multiple-BBERF-Action Enumerated			
2058 Rate-Element			
2059 Scale-Factor Grouped 2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved -			
2060 Tariff-Information			
2061 Unit-Cost Grouped Crouped Incremental-Cost Grouped Crouped Croupe			
2062 Incremental-Cost			
2063 Local-Sequence-Number			
2064 Node-Id UTF8String Enumerated 2065 SGW-Change Enumerated Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address Address Address Address Address Address Address 2100 reserved -	2062 Incremental-Cost	Grouped	
2064 Node-Id	2063 Local-Sequence-Number	Unsigned32	
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2401 Serving-Node			
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2522 LCS-Privacy-Check-Session Grouped 2523 LCS-QoS-Class Enumerated			
2523 LCS-QoS-Class Enumerated			
Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172		Enumerated	<u> </u>

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.

Note: The Experimental Result Codes from 2401 to 2420 are reserved for the TS 29.109

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.

Experimental Result text Specified in the TS **Result Code** DIAMETER_FIRST_REGISTRATION 2001 2002 DIAMETER_SUBSEQUENT_REGISTRATION DIAMETER_UNREGISTERED_SERVICE 2003 29.229 [2] 2004 DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED 2005 Deprecated value Note: The Experimental Result Codes from 2006 to 2020 are reserved for the TS 29.229 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]

Table 8.1.2: 3GPP specific Success result codes

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.	
	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]
Note: The Experime	ntal Result Codes from 4121 to 4140 are reserved for the TS 29.061.	
	DIAMETER_PCC_BEARER_EVENT	29.212 [19]
4142	DIAMETER_BEARER_EVENT	29.212 [19]
Note: The Experime	ntal Result Codes from 4143 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	20 172 [24]
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]
4225	DIAMETER_ERROR_POSITIONING_FAILED	
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT	
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.	

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	29.229 [2]
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5011	DIAMETER ERROR FEATURE_UNSUPPORTED	
	erimental Result Codes from 5012 to 5020 are reserved for the TS	S 29.229.
110101 1110 2710		32.299 [5]
Note: The Expe	erimental Result Codes from 5021 to 5040 are reserved for the TS	
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	02.200.
5042	DIAMETER ERROR W-APN UNUSED BY USER	
5043	DIAMETER ERROR NO ACCESS INDEPENDENT SUBSC	
3043	RIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5044	DIAMETER_ERROR_USER_NO_W-AFN_SUBSCRIFTION DIAMETER ERROR UNSUITABLE NETWORK	
	erimental Result Codes from 5046 to 5060 are reserved for the TS	S 20 23/
5061	INVALID SERVICE INFORMATION	29.209 [8],
5062	FILTER_RESTRICTIONS	
		29.211 [17]
29.2		9.209 and 15
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	20 220 [4]
5105	DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC	29.329 [4]
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER ERROR DSAL NOT AVAILABLE	
	erimental Result Codes from 5109 to 5119 are reserved for the TS	3 29 329
5120	DIAMETER ERROR START INDICATION	20.020.
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]
5100	DIAMETER ERROR SERVICE AREA	
5123		20.061
	erimental Result Codes from 5124 to 5139 are reserved for the TS	J 29.001.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	20 040 [40]
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D	29.212 [19]
5145	DIAMETER_QOS_RULE_EVENT	
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
•	rimental Result Codes from 5148 to 5159 are reserved for the TS	S 29.212.
5401	DIAMETER_ERROR_IMPI_UNKNOWN	
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	
	erimental Result Codes from 5404 to 5419 are reserved for the TS	S 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
5423	DIAMETER ERROR UNKNOWN SERVING NODE	
	erimental Result Codes from 5424 to 5449 are reserved for the TS	S 29.272
IIIO EAPE		

5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI ON	00,070,1001			
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	29.273 [20]			
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED				
Note: The Exp	erimental Result Codes from 5453 to 5469 are reserved for the TS	S 29.273.			
5470	DIAMETER_ERROR _SUBSESSION	29.215 [22]			
Note: The Exp	erimental Result Codes from 5471 to 5489 are reserved for the TS	S 29.215.			
5490 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK 29.173 [25]					
Note: The Exp	erimental Result Codes from 5491 to 5509 are reserved for the TS	S 29.173.			

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

	1				Change history	1	
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			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		<u> </u>	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		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			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	
0005.00	OT#00	NP-050039			Allocations for MMS, MM10 Interface	0.0.0	0.40
2005-06	CT#28	CP-050088		4	Gx interface allocation correction	6.3.0	6.4.0
2005.00	CT#20	CP-050196		1	Addition of Maximum-Number-Accesses AVP	C 4 O	0.5.0
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.4.0	6.5.0
		CP-050310 CP-050310		1	Addition of Pr reference point to TS 29.230 Error code cleanup	{	
		CP-050310			Addition of Rx ref. point and renaming of Experimental Result	}	
		CF-030310	0036		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	0058		Addition of GBA-Type AVP	7.0.0	7.1.0
		CP-050612	0063		Additional Gmb AVP Allocation]	
		CP-050612			Reservation of AVP codes for 32.299]	
		CP-050625	0066		Management of Sh subscriptions		
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	ļ	
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure		
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
		CP-060417			Errors to be sent in response to Sh-Notif	ļ	
		CP-060417			Definition of specific Diameter codes for DSAI		<u> </u>
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
		CP-060562			Addition of Diameter Error Code for Emergency Purposes	}	
		CP-060555			Allocation of new AVP codes for Gmb	ļ	
		CP-060555			AVP code allocations for Rf and Ro interfaces	-	
2007.02	OT#25	CP-060566			Allocation of Success Result Code Range for Gi Interface	7.5.0	7.0.0
2007-03	CT#35	CP-070020 CP-070020			C3 requested addition of new AVP code values to 3GPP TS 29.230 Allocation of new AVP code for DSAI-Tag AVP	7.5.0	7.6.0
		CP-070020		1	Allocation of Thew AVP code for DSAI-Tag AVP Allocation of Experimental-Result-Code AVP for Gi Interface	{	
2007-06	CT#36	CP-070020 CP-070318		1	Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
2007-00	01#30	CP-070318 CP-070312			Experimental-Result-Codes for Gmb interface	7.0.0	7.7.0
		CP-070312		1	Correction of Diameter AVP code allocation	1	
2007-09	CT#37	CP-070512		-	Application ID for Gx protocol	7.7.0	7.8.0
2007-03	CT#37	CP-070743			AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
	5.700	0. 0.0140	0105		Allocation of 3GPP specific AVP codes and Experimental Result		1.0.0
					Codes for Gx protocol		
2007-12	CT#38	CP-070755		4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
2000.00	CT#22	CD 000015	0103	-	AVP code reservation for 32.299 in Rel-8	0.00	0.4.0
2008-03	CT#39	CP-080015		<u> </u>	Correction of reference to TS 29.140	8.0.0	8.1.0
		CP-080019		-	AVP code reservation for TS 32.299 in Rel-8	{	
		CP-080019 CP-080191		1	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in	}	
		UF-000191	0112	[Rel-7		
		CP-080204	0113	1	Correction on AVP code allocation reservation for TS 32.299	<u> </u>	
2008-06	CT#40	CP-080267			A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-09	CT#41	CP-080456	0119		Emergency Public User Identity Removal	8.2.0	8.3.0
2008-09	CT#41	CP-080460			Support of "Loose-Route" indication from HSS]	
2008-09	CT#41	CP-080460		1	STaMIP Application Id	Į	
2008-09	CT#41	CP-080463	10123	1	Cx Impacts of IMS Restoration Procedures (New AVP Codes	1	

0000 00	OT#44	00 000 100	0404		Assignment)		
2008-09	CT#41	CP-080463		0	New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12 2008-12	CT#42 CT#42	CP-080691 CP-080691			Diameter Protocol Codes Assignments for S6a/S6d/S13 Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0 8.4.0
2008-12	CT#42	CP-090044			Update for ReadyForSM	8.3.0 8.4.0	8.5.0
2009-03	CT#43	CP-090044		1	Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090026		· ·	Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033		2	Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024			AVP codes for S9 protocol	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0138	1	Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0140	1	Location of Permanent Failure result code range for the S9 application	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0141		AVPs for TS 29.273	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299		4	Update of the AVP Codes	8.5.0	8.6.0
		CP-090299			AVP code reservation for TS 32.299	}	
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"		
		00.0000	0146		Removal of Requesting Node Type from AIR	_	
0000 00	OT#45	CP-090299			S6b Application ID	0.0.0	0.7.0
2009-09	CT#45	CP-090530			Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
		CP-090530 CP-090531			AVP code allocation for TS 29.212 Update of the AVP type for the User-Id	_	
	}	CP-090531			Trace Depth per session	1	
2009-09	CT#45	CP-090557			AVP code range for charging	8.7.0	9.0.0
2009-09	CT#46	CP-090800		1	ICS-Flag	9.0.0	9.1.0
2000 12	C1#40	CP-091032			From GMLC-Address to GMLC-Number	9.0.0	9.1.0
			0160		Session-Priority AVP		
			0163	2	Introduction of SLh application related AVPs and Experimental		
					Result codes		
			0166		Missing AVP error codes		
		CP-090797	0167	1	Introduction of SLg application related AVPs and Application		
0040.00	OT#47	00.400004	0.450		Identifier	0.4.0	0.0.0
2010-03	CT#47	CP-100031 CP-100034			Wildcarded Public Identity Correction on AVP code allocation reservation for TS 32.299 in	9.1.0	9.2.0
		CF-100034	0100	'	Rel-9		
		CP-100046	0169	1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109		
	İ	CP-100046			Error codes in 29.172 for SLg		
	Î	CP-100048	0174	1	AVPs in 29.272 for TADS support		
		CP-100040			Error codes in 29.272 for Unknown MME		
		CP-100236		4	EPS Subcsriber State and Location Information Request		
	-	CP-100033	0180		One time notification AVP allocation		
	ļ	CP-100046	0181		Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
2010-06	CT#48	CP-100175 CP-100263	0182	1	AVP Codes for PCC	9.2.0	030
2010-00	C1#46	CP-100263	0183	1	EPS state and location retrieval	9.2.0	9.3.0
					SGmb Application ID		
	İ	CP-100277			New APVs in S6a protocol		
2010-09	CT#49	CP-100463			Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.0
					interfaces		
		CP-100464			AVP Codes Allocation for PCC		
2010-12	CT#50	CP-100679	0194	3	S6a Error Diagnostic	9.4.0	9.5.0
2011-03	CT#51	CP-110051			PDP Address correction	9.5.0	9.6.0
2011 06	CT#52	CP-110054 CP-110349		2	Essential correction on the value type of the ELP Application AVPs Handling of RTR for Emergency Registration	9.6.0	9.7.0
2011-06	CT#52	CP-110349 CP-110347			Add AVPs from QSPEC cleanup	9.0.0	9.7.0
		CP-110347			MIPv4 security parameters on the STa and S6b interfaces	†	
2011-09	CT#53	CP-110552			Experimental Result Code Alignment with 29.061	9.7.0	9.8.0
2011-09		CP-110554			AVP code alignment with 29.214		
	İ	CP-110555			AVP code alignment with 32.299		
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		CP-110559			AVP code alignment with 29.212		
2011-12	CT#54	CP-110775			New AVP codes for MBMS IP unicast encapsulation	9.8.0	9.9.0
			0263		New AVP codes for MBMS IP multicast encapsulation		
			0269		MME-Realm AVP code allocation and update	1	
2042.00	OT#55	CD 400005	0279	1	Restoration of Wildcarded-IMPU AVP	0.0.0	0.40
2012-03	CT#55 CT#56	CP-120025 CP-120219			Codes Allocation for AVPs on Initial Attach Duplicated AVP names	9.9.0 9.10.0	9.10.
つい1つ ハム	L	UF-120219	0302	1	Duplicated AVF Harries		
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