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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	20 272 [24]
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	
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
	3GPP-WLAN-QoS-Filter-Support	OctetString	
	The AVP codes from 1 to 255 are reserved for backwards comp	patibility with 3GPP RADIUS	Vendor Specific
	utes (See TS 29.061 [13] and TS 29.234 [6])		
	The AVP codes from 256 to 299 are reserved for future use.		
	Authentication-Method	Enumerated	_
	Authentication-Information-SIM	OctetString	
	Authorization -Information-SIM	OctetString	
	WLAN-User-Data	Grouped	
	Charging-Data	Grouped	_
	WLAN-Access	Enumerated	
	WLAN- 3GPP-IP-Access	Enumerated	_
	APN-Authorized	Grouped	
	APN-Id		_
	APN-Barring-Type	Enumerated	29.234 [6]
	WLAN-Direct-IP-Access	Enumerated	20.201[0]
	Session-Request-Type	Enumerated	_
	Routing-Policy	IPFilterRule	<u> </u>
	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		
400	GBA-UserSecSettings	OctetString	
	Transaction-Identifier NAF-Hostname	OctetString OctetString	-
	GAA-Service-Identifier	OctetString	-
	Key-ExpiryTime	Time	╡
405	ME-Key-Material	OctetString	
406	UICC-Key-Material	OctetString	<u> </u>
407	GBA_U-Awareness-Indicator	Enumerated	
	BootstrapInfoCreationTime	Time	4
409	GUSS-Timestamp GBA-Type	Time Enumerated	29.109 [7]
	UE-Id	OctetString	29.109[7]
412	UE-Id-Type	Enumerated	+
413	UICC-App-Label	OctetString	1
	UICC-MÉ	Enumerated	
415	Requested-Key-Lifetime	Time	_
	Private-Identity-Request	Enumerated	4
	GBA-Push-Info NAF-SA-Identifier	OctetString OctetString	-
	Security-Feature-Request	OctetString	-
420	Security-Feature-Response	OctetString	†
	The AVP codes from 421 to 499 are reserved for TS 29.109	1	
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	1
	Access-Network-Charging-Identifier	Grouped	1
	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	

	Flow-Grouping	Grouped	
	Flow-Number	Unsigned32	
510	Flows	Grouped	
	Flow-Status	Enumerated	
	Flow-Usage	Enumerated	
	Specific-Action	Enumerated	
	Max-Requested-Bandwidth	Unsigned32	
515	Max-Requested-Bandwidth-DL	Unsigned32	
	Max-Requested-Bandwidth-UL	Unsigned32	
	Media-Component-Description	Grouped	
518	Media-Component-Number	Unsigned32	
519	Media-Sub-Component AVP	Grouped	
520	Media-Type	Enumerated	
521	RR-Bandwidth	Unsigned32	
522	RS-Bandwidth	Unsigned32	
523	SIP-Forking-Indication	Enumerated	
524	Codec-Data	OctetString	
525	Service-URN	OctetString	
526	Acceptable-Service-Info	Grouped	
	Service-Info-Status	Enumerated	
	reserved	-	
	AF-Signalling-Protocol	Enumerated	
	The AVP codes from 530 to 599 are reserved for TS 29.209, TS 29.		
	Visited-Network-Identifier	OctetString	
	Public-Identity	UTF8String	
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	
	SIP-Authorization	OctetString	
	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	
	Primary-Event-Charging-Function-Name	DiameterURI	
	Secondary-Event-Charging-Function-Name	DiameterURI	
	Primary-Charging-Collection-Function-Name	DiameterURI	29.229 [2]]
	Secondary-Charging-Collection-Function-Name	DiameterURI	
	User-Authorization-Type	Enumerated	
	User-Data-Already-Available	Enumerated	
	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	
	User-Data-Request-Type		
		Enumerated	
	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
	Supported-Applications	Grouped	
	Associated-Identities	Grouped	
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	reserved	11	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
	SCSCF-Restoration-Info	Grouped	
	Path	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.		
	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-Type 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	00 000 171
	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	
	ı		

	861	Cause-Code	Integer32	
663 Service-Specific Data UTFSString 664 Originator Enumerated 665 PS-Fureish-Charaing-Information Grouped 666 PS-Free-Format-Data OctetString 667 PS-Append-Free-Format-Data Enumerated 686 Time-Quota-Threshold Unsigned32 699 Volume-Quota-Threshold Unsigned32 970 Trigger-Type Enumerated 871 Cauta-Holding-Time Unsigned32 872 Reporting-Reason Enumerated 873 Service-Information Grouped 874 PS-Information Grouped 875 WLAN-Information Grouped 876 IMS-Information Grouped 877 Reporting-Information Grouped 878 LOS-Information Grouped 879 PoC-Information Grouped 879 PoC-Information Grouped 879 PoC-Information Grouped 871 CS-Information Grouped 882 Media-Information-Time Unsigned32 881 Wall MS-Information Grouped 882 More-Serve-Role Enumerated 883 More-Serve-Role Enumerated <td></td> <td></td> <td></td> <td></td>				
68-4 Originator Enumerated 685 PS-Funish-Charqing-Information Grouped 866 PS-Froe-Format-Data OctelString 867 PS-Append-Free-Format-Data Enumerated 868 Ilme-Quota-Threshold Unsigned32 869 Volume-Quota-Threshold Unsigned32 870 Trigger-Type Enumerated 871 Quota-Holding-Time Unsigned32 872 Reporting-Reason Enumerated 873 Evice-Information Grouped 873 Service-Information Grouped 874 PS-Information Grouped 875 W.AM-Information Grouped 976 W.AM-Information Grouped 977 MMS-Information Grouped 978 PO-C-Information Grouped 980 MBMS-Information Grouped 981 Quota-Consumption-Time Unsigned32 982 PC-Session-Type Enumerated 983 PC-Server-Role Enumerated 984 PC-Session-Type Enumerated 985 Proc-Session-Type Enumerated 986 Proc-Session-Type Unsigned32 987 Particyparts-Involved Unsigned32				
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914MBMS-Counting-InformationEnumerated915MBMS-User-Data-Mode-IndicationEnumerated916MBMS-GGSN-AddressUTF8String917MBMS-GGSN-IPv6-AddressUTF8String918MBMS-BMSC-SSM-IP-AddressUTF8String919MBMS-BMSC-SSM-IPv6-AddressUTF8String920MBMS-Flow-IdentifierOctetString921CN-IP-Multicast-DistributionEnumerated922MBMS-HC-IndicatorEnumerated923MBMS-Access-IndicatorEnumerated				
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920MBMS-Flow-IdentifierOctetString921CN-IP-Multicast-DistributionEnumerated922MBMS-HC-IndicatorEnumerated923MBMS-Access-IndicatorEnumerated				
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922MBMS-HC-IndicatorEnumerated923MBMS-Access-IndicatorEnumerated				
923 MBMS-Access-Indicator Enumerated			Enumerated	
	922	MBMS-HC-Indicator	Enumerated	
Note: The AVP codes from 924 to 999 are reserved for TS 29.061			Enumerated	
	Note:	The AVP codes from 924 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	
1027 IP-CAN-Type	Enumerated	
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	29.212 [19]
1035 CoA-IP-Address	Address	
1036 Tunnel-Header-Filter	IPFilterRule	
1037 Tunnel-Header-Length	Unsigned32	
1038 Tunnel-Information	Grouped	
1039 CoA-Information	Grouped	
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32	
1041 APN-Aggregate-Max-Bitrate-UL	Unsigned32	
1042 Revalidation-Time	Time	
1043 Rule-Activation-Time	Time	
1044 Rule-DeActivation-Time	Time	
1045 Session-Release-Cause	Enumerated	
1046 Priority-Level	Unsigned32	
1047 Pre-emption-Capability	Enumerated	
1048 Pre-emption-Vulnerability	Enumerated	
1049 Default-EPS-Bearer-QoS	Grouped	
1050 AN-GW-Address	Address	
1051 QoS-Rule-Install	Grouped	
1052 QoS-Rule-Remove	Grouped	
1053 QoS-Rule-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	
1064 Session-Linking-Indicator	Enumerated	
1065 PDN-Connection-ID	OctetString	
1066 Monitoring-Key	OctetString	

106F Usage-Monitoring-Information	4007 Hoose Manitoring Information	Cravinad	
1008 Usage-Monitoring-Report Enumerated			
1970 Usage-Monitoring-Support Enumerated			
1071 CSG-Information-Reporting			
1072 Packet-Filter-Usage			
1073 Charging-Correlation-Indicator Enumerated			
1075 Intervent			
1076 reserved			
1076 Inserved 1077 Inserved 1078 Inserved 1078 Inserved 1079 Ins		UTF8String	
1077 reserved			
1079 reserved			
1079 reserved			
Note: The AVP codes from 1081 to 1099 are reserved for TS 29.212 100 Served-User-Identity			
1100 Served-User-Identity		Enumerated	
1101 VASP-ID			
1102 VAS-ID			
1103 Trigger-Event			
1104 Sender-Address			
1105 Initial-Recipient-Address Grouped 1106 Result-Recipient-Address Grouped 1107 Seguence-Number Unsigned32 1108 Recipient-Address UTF8String 1109 Routeing-Address UTF8String 1110 Pouteing-Address UTF8String 1111 Delivery-Report 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-Toxt UTF8String 1119 Status-Toxt UTF8String 1119 Status-Toxt UTF8String 1110 Domain-Name UTF8String 1201 Recipient-Address Grouped 1202 MM-Content-Type Grouped 1203 MM-Content-Type Grouped 1204 Type-Number Enumerated 1205 Additional-Type-Information UTF8String 1206 Content-Size Unsigned32 1207 Additional-Type-Information Grouped 1208 Addresse-Type Enumerated 1209 Priority Enumerated 1210 Message-ID UTF8String 1211 Message-Type Enumerated 1212 Message-Size Unsigned32 1214 Message-Size Unsigned32 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1217 Adaptations Enumerated 1218 Adaptations Enumerated 1219 Aux-Applic-Info UTF8String 1219 Aux-Applic-Info UTF8String 1210 Message-Size Enumerated 1211 Message-Size Enumerated 1212 Content-Class Enumerated 1213 Repis-Report-Requested Enumerated 1214 Enumerated Enumerated 1215 Token-Text Enumerated 1216 Delivery-Report-Requested Enumerated 1217 Adaptations Enumerated 1218 Applic-ID UTF8String 1219 Aux-Applic-Info UTF8String 1210 Enumerated Enumerated 1221 Enumerated Enumerated 1222 Enumerated Enumerated 1222 Enumerated Enumerated 1223 Enumerated Enumerated 1224 Enumerated Enumerated 12			
1106 Result-Recipient-Address			
1101 Sequence-Number			
1108 Recipient-Address			
1100			
1108 Routeing-Address		UTF8String	
1110 Originating-Interface	1109 Routeing-Address		29.140 [16]
1111 Delivery-Report			
1112 Read-Reply	1111 Delivery-Report	Enumerated	
1113 Sender-Visibility		Enumerated	
1114 Service-Key		Enumerated	
1116 Billing-Information		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 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-ID UTF8String 1212 Message-Size Unsigned32 1213 Message-Class Grouped 1214 Class-Identifier Enumerated 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1218 Applic-ID UTF8String 1219 Aux-Applic-Info UTF8String 1219 Aux-Applic-Info UTF8String 1220 Content-Class Enumerated 1221 DRM-Content Enumerated 1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTF8String 1224 File-Repair-Supported Enumerated 1225 MBMS-User-Service-Type Enumerated 1226 Unit-Quota-Threshold Unsigned32 1227 PDP-Address Address 1228 SGSN-Address Address Address 1228 SGSN-Address Address Address Address Address Address 1228 Address Address Address 1226 Address Address		5 11 5 5 11 11 11	
Recipient-Address Grouped		UTF8String	
1202 Submission-Time Time 1203 MM-Content-Type Grouped 1204 Type-Number Enumerated 1205 Additional-Type-Information UTF8String 1206 Content-Size Unsigned32 1207 Additional-Content-Information Grouped 1208 Addressee-Type Enumerated 1209 Priority Enumerated 1210 Message-ID UTF8String 1211 Message-Type Enumerated 1212 Message-Size Unsigned32 1213 Message-Size Unsigned32 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 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 1226 SGSN-Address Address 1226 SGSN-Address Address 1226 SGSN-Address Address 1226 SGSN-Add			
1203 MM-Content-Type Grouped 1204 Type-Number			
Type-Number 1205 Additional-Type-Information 1206 Content-Size 1207 Additional-Content-Information 1208 Addressee-Type 1209 Priority 1210 Message-ID 1211 Message-ID 1212 Message-Size 1213 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1219 Aux-Applic-Info 1220 Content-Class 1221 DRM-Content 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1244 File-Repair-Supported 1255 MBMS-User-Service-Type 1264 Enumerated 1277 PDP-Address 1285 GSN-Address 1286 GSN-Address Enumerated 1297 PDP-Address 1208 Insumerated 1208 UTF8String 1209 UTF8String 1219 Lorented 1220 Content-Class 1221 DRM-Content 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1246 Lorented 1257 PDP-Address 1268 GSN-Address 1278 Address 1288 GSN-Address 1288 GSN-Address 1288 GSN-Address 1288 GSN-Address 1288 Address 1288 GSN-Address 1288 Address			
1205 Additional-Type-Information UTF8String 1206 Content-Size Unsigned32 1207 Additional-Content-Information Grouped 1208 Addressee-Type Enumerated 1209 Priority Enumerated 1210 Message-ID UTF8String 1211 Message-Type Enumerated 1212 Message-Size Unsigned32 1213 Message-Class Grouped 1214 Class-Identifier Enumerated 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1217 Adaptations Enumerated 1218 Applic-ID UTF8String 1219 Aux-Applic-Info UTF8String 1210 DRM-Content 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 GGSN-Address Address			
1206 Content-Size Unsigned32 1207 Additional-Content-Information Grouped 1208 Addressee-Type Enumerated 1209 Priority Enumerated 1210 Message-ID UTF8String 1211 Message-Type Enumerated 1212 Message-Size Unsigned32 1213 Message-Class Grouped 1214 Class-Identifier Enumerated 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1217 Adaptations Enumerated 1218 Applic-ID UTF8String 1219 Aux-Applic-Info UTF8String 1220 Content-Class Enumerated 1221 DRM-Content Enumerated 1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTF8String 1224 File-Repair-Supported Enumerated 1225 MBMS-User-Service-Type Enumerated 1226 Unit-Quota-Threshold Unsigned32 1227 PDP-Address Address 1228 SGSN-Address Address			
1207 Additional-Content-InformationGrouped1208 Addressee-TypeEnumerated1209 PriorityEnumerated1210 Message-IDUTF8String1211 Message-TypeEnumerated1212 Message-SizeUnsigned321213 Message-ClassGrouped1214 Class-IdentifierEnumerated1215 Token-TextUTF8String1216 Delivery-Report-RequestedEnumerated1217 AdaptationsEnumerated1218 Applic-IDUTF8String1219 Aux-Applic-InfoUTF8String1220 Content-ClassEnumerated1221 DRM-ContentEnumerated1222 Read-Reply-Report-RequestedEnumerated1223 Reply-Applic-IDUTF8String1224 File-Repair-SupportedEnumerated1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress	· · · · · · · · · · · · · · · · · · ·	Ŭ	
1208 Addressee-Type			
1209 Priority			
1210Message-IDUTF8String1211Message-TypeEnumerated1212Message-SizeUnsigned321213Message-ClassGrouped1214Class-IdentifierEnumerated1215Token-TextUTF8String1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String1224File-Repair-SupportedEnumerated1225MBMS-User-Service-TypeEnumerated1226Unit-Quota-ThresholdUnsigned321227PDP-AddressAddress1228SGSN-AddressAddress			
1211Message-TypeEnumerated1212Message-SizeUnsigned321213Message-ClassGrouped1214Class-IdentifierEnumerated1215Token-TextUTF8String1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String1224File-Repair-SupportedEnumerated1225MBMS-User-Service-TypeEnumerated1226Unit-Quota-ThresholdUnsigned321227PDP-AddressAddress1228SGSN-AddressAddress			
1212Message-SizeUnsigned321213Message-ClassGrouped1214Class-IdentifierEnumerated1215Token-TextUTF8String1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String1224File-Repair-SupportedEnumerated1225MBMS-User-Service-TypeEnumerated1226Unit-Quota-ThresholdUnsigned321227PDP-AddressAddress1228SGSN-AddressAddress			
1213 Message-ClassGrouped1214 Class-IdentifierEnumerated1215 Token-TextUTF8String1216 Delivery-Report-RequestedEnumerated1217 AdaptationsEnumerated1218 Applic-IDUTF8String1219 Aux-Applic-InfoUTF8String1220 Content-ClassEnumerated1221 DRM-ContentEnumerated1222 Read-Reply-Report-RequestedEnumerated1223 Reply-Applic-IDUTF8String1224 File-Repair-SupportedEnumerated1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress			
1214 Class-IdentifierEnumerated1215 Token-TextUTF8String1216 Delivery-Report-RequestedEnumerated1217 AdaptationsEnumerated1218 Applic-IDUTF8String1219 Aux-Applic-InfoUTF8String1220 Content-ClassEnumerated1221 DRM-ContentEnumerated1222 Read-Reply-Report-RequestedEnumerated1223 Reply-Applic-IDUTF8String1224 File-Repair-SupportedEnumerated1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress			
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			
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			32.299 [5]
1217 AdaptationsEnumerated1218 Applic-IDUTF8String1219 Aux-Applic-InfoUTF8String1220 Content-ClassEnumerated1221 DRM-ContentEnumerated1222 Read-Reply-Report-RequestedEnumerated1223 Reply-Applic-IDUTF8String1224 File-Repair-SupportedEnumerated1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress			
1218 Applic-IDUTF8String1219 Aux-Applic-InfoUTF8String1220 Content-ClassEnumerated1221 DRM-ContentEnumerated1222 Read-Reply-Report-RequestedEnumerated1223 Reply-Applic-IDUTF8String1224 File-Repair-SupportedEnumerated1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress			
1219 Aux-Applic-InfoUTF8String1220 Content-ClassEnumerated1221 DRM-ContentEnumerated1222 Read-Reply-Report-RequestedEnumerated1223 Reply-Applic-IDUTF8String1224 File-Repair-SupportedEnumerated1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress			
1220 Content-ClassEnumerated1221 DRM-ContentEnumerated1222 Read-Reply-Report-RequestedEnumerated1223 Reply-Applic-IDUTF8String1224 File-Repair-SupportedEnumerated1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress			
1221 DRM-ContentEnumerated1222 Read-Reply-Report-RequestedEnumerated1223 Reply-Applic-IDUTF8String1224 File-Repair-SupportedEnumerated1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress			
1222 Read-Reply-Report-RequestedEnumerated1223 Reply-Applic-IDUTF8String1224 File-Repair-SupportedEnumerated1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress			
1223Reply-Applic-IDUTF8String1224File-Repair-SupportedEnumerated1225MBMS-User-Service-TypeEnumerated1226Unit-Quota-ThresholdUnsigned321227PDP-AddressAddress1228SGSN-AddressAddress			
1224 File-Repair-SupportedEnumerated1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress			
1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress			
1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress			
1227 PDP-AddressAddress1228 SGSN-AddressAddress			
1228 SGSN-Address Address			
1229 PoC-Session-Id UTF8String		Address	

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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	
1273 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		
1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	29.272 [21]
	UTF8String	20.212 [21]
1403 Software-Version 1404 QoS-Subscribed	UTF8String	

1405 ULR-Flags	Unsigned32
1406 ULA-Flags	Unsigned32
407 Visited PLMN Id	OctetString
408 Requested-EUTRAN-Authentication-Info	Grouped
409 Requested-UTRAN- GERAN-Authentication-Info	Grouped
410 Number-Of-Requested-Vectors 411 Re-Synchronization-Info	Unsigned32 OctetString
412 Immediate-Response-Preferred	Unsigned32
413 Authentication-Info	Grouped
414 E-UTRAN-Vector	Grouped
415 UTRAN-Vector	Grouped
416 GERAN-Vector	Grouped
417 Network-Access-Mode	Enumerated
1418 HPLMN-ODB	Enumerated
419 Item-Number	Unsigned32
420 Cancellation-Type	Enumerated
421 DSR-Flags	Unsigned32
422 DSA-Flags	Unsigned32
423 Context-Identifier	Unsigned32
424 Subscriber-Status	Enumerated
1425 Operator-Determined-Barring	Unsigned32
426 Access-Restriction-Data	UTF8String
1427 APN-OI-Replacement	UTF8String
428 All-APN-Configurations-Included-Indicator	Enumerated
429 APN-Configuration-Profile	Grouped
430 APN-Configuration 431 EPS-Subscribed-QoS-Profile	Grouped Grouped
431 EF3-Subscribed-Q03-F10file	Enumerated
433 STN-SR	OctetString
434 Alert-Reason	Enumerated
435 AMBR	Grouped
436 CSG-Subscription-Data	Grouped
1437 CSG-Id	Unsigned32
1438 PDN-GW-Allocation-Type	Enumerated
1439 Expiration-Date	Time
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32
441 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 OctetString
1449 AUTN	i ocieronna
1/15() K A S M E	
	OctetString
1451 Reserved	OctetString -
1451 Reserved 1452 Trace-Collection-Entity	OctetString - Address
451 Reserved452 Trace-Collection-Entity453 Kc	OctetString - Address OctetString
1451 Reserved 1452 Trace-Collection-Entity 1453 Kc 1454 SRES	OctetString - Address
 Reserved Trace-Collection-Entity Kc SRES Reserved 	OctetString - Address OctetString OctetString -
1451 Reserved 1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type	OctetString - Address OctetString
451 Reserved 452 Trace-Collection-Entity 453 Kc 454 SRES 455 Reserved 456 PDN-Type 457 Roaming-Restricted-Due-To-Unsupported-Feature	OctetString - Address OctetString OctetString - Enumerated
451 Reserved 452 Trace-Collection-Entity 453 Kc 454 SRES 455 Reserved 456 PDN-Type 457 Roaming-Restricted-Due-To-Unsupported-Feature 458 Trace-Data	OctetString - Address OctetString OctetString - Enumerated Enumerated
451 Reserved 452 Trace-Collection-Entity 453 Kc 454 SRES 455 Reserved 456 PDN-Type 457 Roaming-Restricted-Due-To-Unsupported-Feature 458 Trace-Data 459 Trace-Reference 460 Reserved	OctetString - Address OctetString OctetString - Enumerated Enumerated Grouped
1451 Reserved 1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved	OctetString - Address OctetString OctetString - Enumerated Enumerated Grouped
1451 Reserved 1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth	OctetString - Address OctetString OctetString - Enumerated Enumerated Grouped OctetString
1451 Reserved 1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List	OctetString - Address OctetString OctetString - Enumerated Enumerated Grouped OctetString - Enumerated OctetString - Enumerated OctetString - Counterated OctetString
1451 Reserved 1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List	OctetString
1450 KASME 1451 Reserved 1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List	OctetString
1451 Reserved 1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id	OctetString
1451 Reserved 1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data	OctetString
1451 Reserved 1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List	OctetString

I verilina e	T	
1470 PDP-Type	OctetString	
1471 3GPP2-MEID	OctetString	
1472 Specific-APN-Info	Grouped	
1473 LCS-Info	Grouped	
1474 GMLC-Number	OctetString	
1475 LCS-PrivacyException	Grouped	
1476 SS-Code	OctetString	
1477 SS-Status	Grouped	
1478 Notification-To-UE-User	Enumerated	
1479 External-Client	Grouped	
1480 Client-Identity	OctetString	
1481 GMLC-Restriction	Enumerated	
1482 PLMN-Client	Enumerated	
1483 Service-Type	Grouped	
1484 ServiceTypeIdentity	Unsigned32	
1485 MO-LR	Grouped	
1486 Teleservice-List	Grouped	
1487 TS-Code	Enumerated	
1488 Call-Barring-Infor-List	Grouped	
1489 SGSN-Number	OctetString	
1490 IDR-Flags	Unsigned32	
1491 ICS-Indicator	Enumerated	
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	29.273 [20]
1504 ANID	UTF8String	29.273 [20]
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 Location-Area-Identity	OctetString	
1607 Service-Area-Identity	OctetString	
1608 Geographical-Information	OctetString	
1609 Geodetic-Information	OctetString	
1610 Current-Location-Retrieved	Enumerated	20 270 [04]
1611 Age-Of-Location-Information	Unsigned32	29.272 [21]
1612 Active-APN	Grouped	
1613 Reserved	-	
1614 Error-Diagnostic	Enumerated	
1615 Reserved	-	
1616 Reserved	-	
1617 Reserved	-	
1618 Reserved	-	
1619 Reserved	-	
1620 Ext-PDP-Type	OctetString	
1621 Ext-PDP-Address	Address	
Note: The AVP codes from 1622 to 1699 are reserved for TS 29.272.	,	
2000 SMS-Information	Grouped	
2001 Data-Coding-Scheme	Integer32	32.299 [5]
	"" " "	

2002 Destination-Interface	Grouped
2003 Interface-Id	UTF8String
2004 Interface-Port	UTF8String
2005 Interface-Text	UTF8String
2006 Interface-Type	Enumerated
2007 SM-Message-Type	Enumerated
2008 Originating-SCCP-Address	Address
2009 Originator-Interface	Grouped
2010 Recipient-SCCP-Address	Address
2011 Reply-Path-Requested	Enumerated
2012 SM-Discharge-Time	Time
2013 SM-Protocol-ID	OctetString
2014 SM-Status	OctetString
2015 SM-User-Data-Header	OctetString
2016 SMS-Node	Enumerated
2017 SMSC-Address	Address
018 Client-Address	Address
019 Number-of-Messages-Sent	Unsigned32
020 Low-Balance-Indication	Enumerated
2021 Remaining-Balance	Grouped
2022 Refund-Information	OctetString
023 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
029 SM-Service-Type	Enumerated
2030 MMTel-Information	Grouped
031 Service-Type	Unsigned32
2032 Service-Mode	Unsigned32
2033 Subscriber-Role	Enumerated
2034 Number-Of-Diversions	Unsigned32
2035 Associated-Party-Address	UTF8String
2036 SDP-Type	Enumerated
2037 Change-Condition	Integer32
038 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-Id	Enumerated
2051 Dynamic-Address-Flag	Enumerated
2052 Accumulated-Cost	Grouped
2053 AoC-Cost-Information	Grouped
2054 AoC-Information	Grouped
2055 AoC-Request-Type	Enumerated
056 Current-Tariff	Grouped
057 Next-Tariff	Grouped
2058 Rate-Element	Grouped
2059 Scale-Factor	Grouped
2060 Tariff-Information	Grouped
2061 Unit-Cost	Grouped
2062 Incremental-Cost	Grouped
2063 Local-Sequence-Number	Unsigned32
2064 Node-Id	UTF8String
2065 SGW-Change	Enumerated
2066 Charging-Characteristic-Selection-Mode	Enumerated

2067 SGW-Address	Address		
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299			
2100 reserved -			
2101 Application-Server-ID	UTF8String		
2102 Application-Service-Type	Enumerated		
2103 Application-Session-ID	Unsigned32		
2104 Delivery-Status	UTF8String		
2105 reserved			
2106 reserved	-		
2107 reserved	-		
2108 reserved	-		
2109 reserved	-	32.299 [5]	
2110 IM-Information	Grouped		
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32		
2112 Number-Of-Messages-Successfully-Sent	Unsigned32		
2113 Total-Number-Of-Messages-Exploded	Unsigned32		
2114 Total-Number-Of-Messages-Sent	Unsigned32		
2115 DCD-Information	Grouped		
2116 Content-ID	UTF8String		
2117 Content-provider-ID	UTF8String		
Note: The AVP codes from 2118 to 2199 are reserved for TS 32.299	on county		
2200 Subsession-Decision-Info	Grouped		
2201 Subsession-Enforcement-Info	Grouped		
2201 Subsession-Enforcement-Info	Unsigned32	20 215 [22]	
2203 Subsession-Operation	•	29.215 [22]	
	Enumerated		
2204 Multiple-BBERF-Action Note: The AVP codes from 2205 to 2299 are reserved for TS 29.215	Enumerated		
	T		
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	32.299 [5]	
2311 AoC-Service	Enumerated		
2312 AoC-Service-Obligatory-Type	Grouped		
2313 AoC-Service-Type	Enumerated		
2314 AoC-Subscription-Information	Grouped		
2315 Preferred-AoC-Currency	Unsigned32		
2316 Reason-Code	Enumerated		
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		
Note: The AVP codes from 2322 to 2399 are reserved for TS 32.299			
2400 LMSI	OctetString		
2401 Serving-Node	Grouped		
2402 MME-Name	DiameterIdentity		
2403 MSC-Number	OctetString	20 172 [25]	
2404 LCS-Capabilities-Sets	Unsigned32	29.173 [25]	
2405 GMLC-Address	Address		
2406 Additional-Serving-Node	Grouped		
2407 PPR-Address	Address		
Note: The AVP codes from 2408 to 2499 are reserved for TS 29.173			
2500 Location-Type	Enumerated		
2501 LCS-EPS-Client-Name	Grouped		
2502 LCS-Requestor-Name	Grouped	00 1-0	
2503 LCS-Priority	Unsigned32	29.172 [24]	
2504 LCS-QoS	Grouped		
2505 Horizontal-Accuracy	Unsigned32		
[5.101g110402	i	

2506	Vertical-Accuracy	Unsigned32	
2507	Vertical-Requested	Enumerated	
2508	/elocity-Requested	Enumerated	
2509 I	Response-Time	Enumerated	
2510	Supported-GAD-Shapes	Unsigned32	
2511 l	_CS-Codeword	UTF8String	
2512 l	_CS-Privacy-Check	Enumerated	
2513	Accuracy-Fulfilment-Indicator	Enumerated	
2514	Age-Of-Location-Estimate	Unsigned32	
2515	/elocity-Estimate	OctetString	
2516 I	EUTRAN-Positioning-Data	OctetString	
2517 I	ECGI	OctetString	
2518 l	_ocation-Event	Enumerated	
2519 I	Pseudonym-Indicator	Enumerated	
2520 l	_CS-Service-Type-ID	Unsigned32	
2521 l	_CS-Privacy-Check-Non-Session	Grouped	
	_CS-Privacy-Check-Session	Grouped	
	_CS-QoS-Class	Enumerated	
Note:	The AVP codes from 2524 to 2599 are reserved for TS 29.172	<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.

8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

Experimental Result Code	Result text	Specified in the TS
2001	DIAMETER_FIRST_REGISTRATION	
2002	DIAMETER_SUBSEQUENT_REGISTRATION	
2003	DIAMETER_UNREGISTERED_SERVICE	29.229 [2]
2004	DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED	
2005	Deprecated value	
Note: The Experime	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.	
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]
Note: The Experime	ental 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 4121 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 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 Experimental 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]
5122	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_SUBSCRIPTION	
	ON	29.273 [20]
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	29.273 [20]
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	
Note: The Expe	erimental Result Codes from 5453 to 5469 are reserved for the TS	S 29.273.
5470	DIAMETER_ERROR _SUBSESSION	29.215 [22]
Note: The Expe	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 Expe	erimental Result Codes from 5491 to 5509 are reserved for the TS	S 29.173.

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

Det :	TCO "	TOO D	00	I D -	Change history	011	IN
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292		-	Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25	NP-040401		-	Correction of Charging application reference	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401		4	Removal of User Data Request Type AVP	6.0.0	6.1.0
	CN#25	NP-040412		1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26	NP-040579		4	Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12	CN#26	NP-040580		1	Reservation of command code 310	6.1.0	6.2.0
2004-12	CN#26	NP-040579 NP-040600		7	Addition of Gmb interface Documenting the Reuse of the 3GPP specific application identifier	6.1.0	6.2.0
2004-12	CN#26			2	of Ro for Re on the Charging Interfaces	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047		1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
	1	NP-050039			Allocations for Gx interface		
	1	NP-050039			Allocations for Gmb interface		
	07:00	NP-050039		-	Allocations for MMS, MM10 Interface		
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.3.0	6.4.0
	0.70	CP-050196		1	Addition of Maximum-Number-Accesses AVP		
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.4.0	6.5.0
	}	CP-050310			Addition of Pr reference point to TS 29.230	1	
		CP-050310		-	Error code cleanup		
		CP-050310	0056		Addition of Rx ref. point and renaming of Experimental Result Codes		
2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-12	CT#30	CP-050624	0058		Addition of GBA-Type AVP	7.0.0	7.1.0
	Î	CP-050612	0063		Additional Gmb AVP Allocation	ĺ	
	Ì	CP-050612	0065		Reservation of AVP codes for 32.299	Ī	
	Î	CP-050625	0066		Management of Sh subscriptions	ĺ	
2006-03	CT#31	CP-060073	0069		Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
	Î	CP-060084	0071		User-Data in the response to Sh-Subs-Notif	Ī	
	Î	CP-060084	0072	1	New error indications for the Sh-Subs-Notif procedure	Ī	
2006-06	CT#32	CP-060302	0075		S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417	0077	3	New AVP Code	7.3.0	7.4.0
		CP-060417	0800		Errors to be sent in response to Sh-Notif		
		CP-060417	0081		Definition of specific Diameter codes for DSAI		
2006-12	CT#34	CP-060566	0085	1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
		CP-060562			Addition of Diameter Error Code for Emergency Purposes]	
		CP-060555			Allocation of new AVP codes for Gmb]	
		CP-060555			AVP code allocations for Rf and Ro interfaces	<u> </u>	
		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
	1	CP-070020			Allocation of new AVP code for DSAI-Tag AVP	ļ	
		CP-070020			Allocation of Experimental-Result-Code AVP for Gi Interface		
2007-06	CT#36	CP-070318			Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312	0098	<u> </u>	Experimental-Result-Codes for Gmb interface	1	
	0	CP-070312			Correction of Diameter AVP code allocation		1
2007-09	CT#37	CP-070527		<u> </u>	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
			0105		Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol		
2007-12	CT#38	CP-070755	0101	4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
	Î		0103		AVP code reservation for 32.299 in Rel-8	Ī	
2008-03	CT#39	CP-080015	0109		Correction of reference to TS 29.140	8.0.0	8.1.0
		CP-080019	0111		AVP code reservation for TS 32.299 in Rel-8	J	
		CP-080019			Wildcarded Public User Identities]	
		CP-080191		1	Correction on AVP code allocation reservation for TS 32.299 in Rel-7		
		CP-080204	0113	1	Correction on AVP code allocation reservation for TS 32.299	1	
2008-06	CT#40	CP-080204		1	A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-08	CT#40	CP-080267		<u> </u>	Emergency Public User Identity Removal	8.2.0	8.3.0
_ UUU-U3				1	Support of "Loose-Route" indication from HSS	0.2.0	0.5.0
2008 00	1(' #//1						•
2008-09 2008-09	CT#41 CT#41	CP-080460 CP-080460		1	STaMIP Application Id	1	

I	Ī	1		I	Assignment)	1	ĺ
2008-09	CT#41	CP-080463	0124		New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42	CP-080691		2	Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691			Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044	0130	1	Update for ReadyForSM	8.4.0	8.5.0
2009-03	CT#43	CP-090044	0131	1	Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090026			Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033			Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024			AVP codes for S9 protocol	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024	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		1	Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299			Update of the AVP Codes	8.5.0	8.6.0
		CP-090299			AVP code reservation for TS 32.299	1	
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"	1	
		0.00000	0146		Removal of Requesting Node Type from AIR	1	
		CP-090299			S6b Application ID	i	
2009-09	CT#45	CP-090530			Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
		CP-090530			AVP code allocation for TS 29.212		
		CP-090531			Update of the AVP type for the User-Id	1	
		CP-090531			Trace Depth per session	i	
2009-09	CT#45	CP-090557			AVP code range for charging	8.7.0	9.0.0
2009-12	CT#46	CP-090800		1	ICS-Flag	9.0.0	9.1.0
		CP-091032			From GMLC-Address to GMLC-Number	1	
			0160		Session-Priority AVP		
			0163	2	Introduction of SLh application related AVPs and Experimental Result codes		
			0166		Missing AVP error codes	1	
		CP-090797		1	Introduction of SLg application related AVPs and Application		
					Identifier		
2010-03	CT#47	CP-100031			Wildcarded Public Identity	9.1.0	9.2.0
		CP-100034	0168	1	Correction on AVP code allocation reservation for TS 32.299 in Rel-9		
		CP-100046	0169	1	AVP code allocation for 29.172	-	
		CP-100036			GPL_U support in TS 29.109	1	
		CP-100046			Error codes in 29.172 for SLg		
		CP-100048		1	AVPs in 29.272 for TADS support		Ì
		CP-100040	-		Error codes in 29.272 for Unknown MME		
		CP-100236		4	EPS Subcsriber State and Location Information Request	1	
		CP-100033	0180		One time notification AVP allocation		
		CP-100046			Addition of the LCS-QoS-Class attribute value		
		CP-100175			Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
2010-06	CT#48	CP-100263		1	AVP Codes for PCC	9.2.0	9.3.0
			0183		EPS state and location retrieval		
		CP-100287			SGmb Application ID		
0040.00	OT#40	CP-100277	0190	1	New APVs in S6a protocol	0.0.0	0.40
2010-09	CT#49	CP-100463	0197	1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces	9.3.0	9.4.0
	İ	CP-100464	0196		AVP Codes Allocation for PCC		
2010-12	CT#50	CP-100679	0194	3	S6a Error Diagnostic	9.4.0	9.5.0
ZU 1U-1Z	CT#51	CP-110051	0211		PDP Address correction	9.5.0	9.6.0
2010-12	C1#31		0014		Essential correction on the value type of the ELP Application AVPs		
2011-03		CP-110054			,, .,		
	CT#51	CP-110349	0219		Handling of RTR for Emergency Registration	9.6.0	9.7.0
2011-03		CP-110349 CP-110347	0219 0230		Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup	9.6.0	9.7.0
2011-03	CT#52	CP-110349 CP-110347 CP-110359	0219 0230 0225		Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces		
2011-03		CP-110349 CP-110347 CP-110359 CP-110552	0219 0230 0225 0248		Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061	9.6.0	9.7.0
2011-03	CT#52	CP-110349 CP-110347 CP-110359 CP-110552 CP-110554	0219 0230 0225 0248 0243		Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061 AVP code alignment with 29.214		
2011-03	CT#52	CP-110349 CP-110347 CP-110359 CP-110552	0219 0230 0225 0248 0243 0238		Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces Experimental Result Code Alignment with 29.061		

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