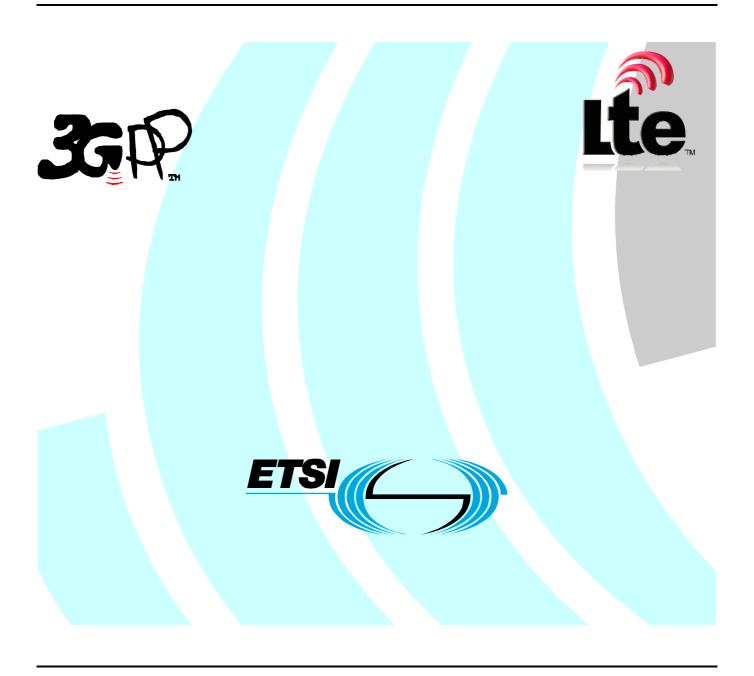
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3GPP specific codes and identifiers
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Foreword

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5

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*.

9.228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and intents".
9.229: "Cx and Dx interfaces based on the Diameter protocol; Protocol details".
9.328: "IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message
9.329: "Sh Interface based on the Diameter protocol; Protocol details".
2.299: "3GPP Diameter charging application".
9.234: "3GPP System to WLAN Interworking; Stage 3 Description".
9.109: "Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the rotocol; Protocol details".
9.209: "Technical Specification Group Core Network; Policy control over Gq
3588: "Diameter Base Protocol".
3589: "Diameter Command Codes for Third Generation Partnership Project (3GPP)
terprise-Numbers: http://www.iana.org/assignments/enterprise-numbers
AA parameters register: ftp://ftp.iana.org/assignments/aaa-parameters/
9.061: "Interworking between the Public Land Mobile Network (PLMN) supporting d services and Packet Data Networks (PDN)".
2.296: "Telecommunication management; Online Charging System (OCS): s and interfaces;".
9.210: "Charging rule provisioning over Gx interface".
9.140 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)".

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]
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]

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 codes allocated for 3GPP

Command code	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	20, 220, [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]

Editors 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

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 Command codes allocated for 3GPP

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	

6 Vendor identifier

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

6.1 3GPP"s vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
	3GPP-WLAN-APN-Id	OctetString	29.234 [6]
Note:	The AVP codes from 1 to 255 are reserved for backwards compatik	oility with 3GPP RADIUS	Vendor Specific
Attribu	ites (See TS 29.061 [13])	•	·
Note:	The AVP codes from 256 to 299 are reserved for future use.		
	Authentication-Method	Enumerated	
	Authentication-Information-SIM	OctetString	
	Authorization -Information-SIM	OctetString	
	WLAN-User-Data	Grouped	
	Charging-Data	Grouped	
	WLAN-Access	Enumerated	
	WLAN- 3GPP-IP-Access	Enumerated	
	APN-Authorized	Grouped	_
	APN-Id		_
	APN-Barring-Type	Enumerated	29.234 [6]
	WLAN-Direct-IP-Access	Enumerated	-
	Session-Request-Type	Enumerated	_
	Routing-Policy	IPFilterRule	_
	Max-Requested-Bandwidth	OctetString	
	Charging-Characteristics	Integer	1
	Charging-Nodes	Grouped	1
	Primary-OCS-Charging-Function-Name	DiameterIdentity	1
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	1
	3GPP-AAA-Server-Name	DiameterIdentity	_
	Maximum-Number-Accesses	Unsigned32	
Note:	The AVP codes from 320 to 399 are reserved for TS 29.234 GBA-UserSecSettings	OctedString	
	Transaction-Identifier	OctetString	-
	NAF-Hostname	OctetString	1
	GAA-Service-Identifier	OctedString	1
404	Key-ExpiryTime	Time	
405	ME-Key-Material	OctedString	
406	UICC-Key-Material GBA U-Awareness-Indicator	OctedString Enumerated	
	BootstrapInfoCreationTime	Time	+
	GUSS-Timestamp	Time	29.109 [7]
410	GBA-Type	Enumerated	
411	UE-Id	OctectString	
412	UE-Id-Type	Enumerated	
413	UICC-App-Label UICC-ME	OctectString	
	Requested-Key-Lifetime	Enumerated Time	_
416	Private-Identity-Request	Enumerated	-
	GBA-Push-Info	OctectString	1
	NAF-SA-Identifier	OctectString	
	The AVP codes from 419 to 499 are reserved for TS 29.109		
	Abort-Cause	Enumerated	
501	Access-Network-Charging-Address	Address]
	Access-Network-Charging-Identifier	Grouped	
503	Access-Network-Charging-Identifier-Value	OctetString	
504	AF-Application-Identifier	OctetString]
	AF-Charging-Identifier	OctetString	20 200 [0]
	Authorization-Token	OctetString	29.209 [8], 29.211 [17]
507	Flow-Description	IPFilterRule	23.211[11]
	Flow-Grouping	Grouped]
	Flow-Number	Unsigned32	_
	Flows	Grouped	_
	Flow-Status	Enumerated]
512	Flow-Usage	Enumerated	

	MSISDN	OctetString	
	User-Data	OctetString	
	Data-Reference	Enumerated	
	Service-Indication	OctetString	
705	Subs-Req-Type	Enumerated	
706	Requested-Domain	Enumerated	
707	Current-Location	Enumerated	
708	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	
	One-Time-Notification	Enumerated	
	The AVP codes from 713 to 799 are reserved for TS 29.329.	Litamerated	
Note.	The AVI codes from 713 to 733 are reserved for 10 23.323.		32.299 [5]
Noto:	The AVP codes from 800 to 822 are reserved for TS 32.299.		32.233 [J]
	Event-Type	Grouped	
	SIP-Method	UTF8String	
	Event	UTF8String	
	Content-Type	UTF8String	
	Content-Length	Unsigned32	
	Content-Disposition	UTF8String	
	Role-of-Node	Enumerated	
	User-Session-Id	UTF8String	
	Calling-Party-Address	UTF8String	
	Called-Party-Address	UTF8String	
833	Time-Stamps	Grouped	
	SIP-Request-Timestamp	Time	
	SIP-Response-Timestamp	Time	
	Application-Server	UTF8String	
	Application-provided-called-party-address	UTF8String	
	Inter-Operator-Identifier	Grouped	
	Originating-IOI	UTF8String	
	Terminating-IOI	UTF8String	
	IMS-Charging-Identifier	UTF8String	
	SDP-Session-Description	UTF8String	
	SDP-Media-Component	Grouped	
	SDP-Media-Name	UTF8String	
	SDP-Media-Description	UTF8String	
	CG-Address	Address	
	GGSN-Address	Address	29.061 [13]
848	Served-Party-IP-Address	Address	29.001 [13]
	Authorized-QoS	UTF8String	
850	Application-Server-Information	Grouped	
851	Trunk-Group-Id	Grouped	
	Incoming-Trunk-Group-Id	UTF8String	
	Outgoing-Trunk-Group-Id	UTF8String	
	Bearer-Service	OctetString	
	Service-Id	UTF8String	
	Associated-URI		
		UTF8String	
	Charged-Party	UTF8String	
	PoC-Controlling-Address	UTF8String	
	PoC-Group-Name	UTF8String	
	Cause	Grouped	
	Cause-Code	Integer32	
	Node-Functionality	Enumerated	
863	Service-Specific-Data	UTF8String	
864	Originator	Enumerated	
	PS-Furnish-Charging-Information	Grouped	
	PS-Free-Format-Data	OctetString	
	PS-Append-Free-Format-Data	Enumerated	
	Time-Quota-Threshold	Unsigned32	
	Volume-Quota-Threshold	Unsigned32	
	Trigger-Type	Enumerated	
	Quota-Holding-Time	Unsigned32	
0/2	Reporting-Reason	Enumerated	

			T
	Service-Information	Grouped	
	PS-Information	Grouped	
875	WLAN-Information	Grouped	
876	IMS-Information	Grouped	
877	MMS-Information	Grouped	
	LCS-Information	Grouped	
	PoC-Information	Grouped	
	MBMS-Information	Grouped	
	Quota-Consumption-Time	Unsigned32	
	Media-Initiator-Flag	Enumerated	
	PoC-Server-Role	Enumerated	
884	PoC-Session-Type	Enumerated	
	Number-Of-Participants	Unsigned32	
	Originator-Address	Grouped	İ
	Participants-Involved	UTF8String	
		Unsigned32	}
	Expires		
	Message-Body	Grouped	
	WAG-Address	Address	
	WAG-PLMN-Id	OctetString	
892	WLAN-Radio-Container	Grouped	
893	WLAN-Technology	Unsigned32	
	WLAN-UE-Local-IPAddress	Address	1
	PDG-Address	Address	1
	PDG-Charging-Id	Unsigned32	1
	Address-Data	UTF8String	{
		,	}
	Address-Domain	Grouped	
	Address-Type	Enumerated	
	TMGI	OctectString	
901	Required-MBMS-Bearer-Capabilities	UTF8String	
902	MBMS-StartStop-Indication	Enumerated	
903	MBMS-Service-Area	OctectString	İ
	MBMS-Session-Duration	Unsigned32	
	Alternative-APN	UTF8String	
	MBMS-Service-Type	Enumerated	-
	MBMS-2G-3G-Indicator	Enumerated	
	MBMS-Session-Identity	OctetString	
909		UTF8String	
	Additional-MBMS-Trace-Info	OctetString	
911	MBMS-Time-To-Data-Transfer	Unsigned32	
912	MBMS-Session-Identity-Repetition-Number	Unsigned32	
	MBMS-Required-QoS	UTF8String	İ
	MBMS-Counting-Information	Enumerated	
	MBMS-User-Data-Mode-Indication	Enumerated	
	MBMS-GGSN-Address	UTF8String	}
			}
	MBMS-GGSN-IPv6-Address	UTF8String	
	MBMS-BMSC-SSM-IP-Address	UTF8String	ļ
	MBMS-BMSC-SSM-IPv6-Address	UTF8String	ļ
	MBMS-Flow-Identifier	OctetString	
921	CN-IP-Multicast-Distribution	Enumerated	
	MBMS-HC-Indicator	Enumerated	
	The AVP codes from 923 to 999 are reserved for TS 29.061		•
	Bearer-Usage	Enumerated	
	Charging-Rule-Install	Grouped	1
		Grouped	}
	Charging-Rule-Remove		}
	Charging-Rule-Definition	Grouped	-
	Charging-Rule-Base-Name	UTF8String	
	Charging-Rule-Name	OctetString	ļ
	Event-Trigger	Enumerated	20 212 [10]
1007	Metering-Method	Enumerated	29.212 [19]
	Offline	Enumerated	
	Online	Enumerated	1
	Precedence	Unsigned32	1
	Reporting-Level	Enumerated	
			1
	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-G		
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	
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 1053 QoS-Rule-Definition	Grouped 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	
Note: The AVP codes from 1065 to 1099 are	reserved for TS 29.212	
1100 Served-User-Identity	Grouped	
1101 VASP-ID	UTF8String	
1102 VAS-ID	UTF8String	
1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address	Grouped	
1106 Result-Recipient-Address	Grouped	00 4 40 5403
1107 Sequence-Number	Unsigned	29.140 [16]
1108 Recipient-Address	UTF8String	
1109 Routeing-Address	UTF8String	
1110 Originating-Interface	Enumerated Enumerated	
1111 Delivery-Report 1112 Read-Reply	Enumerated Enumerated	
1112 Read-Reply 1113 Sender-Visibility	Enumerated	
1113 Serider-Visibility 1114 Service-Key	UTF8String	
THE COLUMN TO THE	Off County	

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		
1200 Domain-Name	UTF8String	
1201 Recipient-Address	Grouped	
1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size	Unsigned32	
1207 Additional-Content-Information	Grouped	
1208 Addressee-Type	Enumerated	
1209 Priority	Enumerated	
1210 Message-ID	UTF8String	
1211 Message-Type	Enumerated	
1212 Message-Size	Unsigned32	
1213 Message-Class	Grouped	
1214 Class-Identifier	Enumerated	
1215 Token-Text	UTF8String	
1216 Delivery-Report-Requested	Enumerated	
1217 Adaptations	Enumerated	
1217 Adaptations	UTF8String	
1219 Aux-Applic-Info 1220 Content-Class	UTF8String Enumerated	
1221 DRM-Content	Enumerated	
1222 Read-Reply-Report-Requested	Enumerated	
1223 Reply-Applic-ID	UTF8String	
1224 File-Repair-Supported	Enumerated	
1225 MBMS-User-Service-Type	Enumerated	
1226 Unit-Quota-Threshold	Unsigned32	
1227 PDP-Address	Address	
1228 SGSN-Address	Address	
1229 PoC-Session-Id	UTF8String	32.299 [5]
1230 Deferred-Location-Even-Type	UTF8String	02.200 [0]
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	UTF8String	
1243 Location-Estimate-Type	Enumerated	
1243 Location-Estimate-Type	Enumerated Grouped	
1244 Location-Type	Grouped	
1244 Location-Type 1245 Positioning-Data	Grouped UTF8String	
1244 Location-Type 1245 Positioning-Data 1246 WLAN-Session-Id	Grouped UTF8String UTF8String	
1244 Location-Type 1245 Positioning-Data 1246 WLAN-Session-Id 1247 PDP-Context-Type	Grouped UTF8String UTF8String Enumerated	
1244 Location-Type 1245 Positioning-Data 1246 WLAN-Session-Id 1247 PDP-Context-Type 1248 MMBox-Storage-Requested	Grouped UTF8String UTF8String Enumerated Enumerated	
1244 Location-Type 1245 Positioning-Data 1246 WLAN-Session-Id 1247 PDP-Context-Type 1248 MMBox-Storage-Requested 1249 Service-Specific-Info	Grouped UTF8String UTF8String Enumerated Enumerated Grouped	
1244 Location-Type 1245 Positioning-Data 1246 WLAN-Session-Id 1247 PDP-Context-Type 1248 MMBox-Storage-Requested 1249 Service-Specific-Info 1250 Called-Asserted-Identity	Grouped UTF8String UTF8String Enumerated Enumerated Grouped UTF8String	
1244 Location-Type 1245 Positioning-Data 1246 WLAN-Session-Id 1247 PDP-Context-Type 1248 MMBox-Storage-Requested 1249 Service-Specific-Info 1250 Called-Asserted-Identity 1251 Requested-Party-Address	Grouped UTF8String UTF8String Enumerated Enumerated Grouped UTF8String UTF8String	
1244 Location-Type 1245 Positioning-Data 1246 WLAN-Session-Id 1247 PDP-Context-Type 1248 MMBox-Storage-Requested 1249 Service-Specific-Info 1250 Called-Asserted-Identity 1251 Requested-Party-Address 1252 PoC-User-Role	Grouped UTF8String UTF8String Enumerated Enumerated Grouped UTF8String UTF8String Grouped	
1244 Location-Type 1245 Positioning-Data 1246 WLAN-Session-Id 1247 PDP-Context-Type 1248 MMBox-Storage-Requested 1249 Service-Specific-Info 1250 Called-Asserted-Identity 1251 Requested-Party-Address 1252 PoC-User-Role 1253 PoC-User-Role-IDs	Grouped UTF8String UTF8String Enumerated Enumerated Grouped UTF8String UTF8String Grouped UTF8String	
1244 Location-Type 1245 Positioning-Data 1246 WLAN-Session-Id 1247 PDP-Context-Type 1248 MMBox-Storage-Requested 1249 Service-Specific-Info 1250 Called-Asserted-Identity 1251 Requested-Party-Address 1252 PoC-User-Role 1253 PoC-User-Role-IDs 1254 PoC-User-Role-info-Units	Grouped UTF8String UTF8String Enumerated Enumerated Grouped UTF8String UTF8String Grouped UTF8String Grouped UTF8String	
1244 Location-Type 1245 Positioning-Data 1246 WLAN-Session-Id 1247 PDP-Context-Type 1248 MMBox-Storage-Requested 1249 Service-Specific-Info 1250 Called-Asserted-Identity 1251 Requested-Party-Address 1252 PoC-User-Role 1253 PoC-User-Role-IDs 1254 PoC-User-Role-info-Units 1255 Talk-Burst-Exchange	Grouped UTF8String UTF8String Enumerated Enumerated Grouped UTF8String UTF8String Grouped UTF8String Grouped UTF8String Grouped UTF8String Grouped	
1244 Location-Type 1245 Positioning-Data 1246 WLAN-Session-Id 1247 PDP-Context-Type 1248 MMBox-Storage-Requested 1249 Service-Specific-Info 1250 Called-Asserted-Identity 1251 Requested-Party-Address 1252 PoC-User-Role 1253 PoC-User-Role-IDs 1254 PoC-User-Role-info-Units 1255 Talk-Burst-Exchange 1256 Service-Generic-Information	Grouped UTF8String UTF8String Enumerated Enumerated Grouped UTF8String UTF8String Grouped UTF8String Grouped UTF8String Grouped Grouped	
1244 Location-Type 1245 Positioning-Data 1246 WLAN-Session-Id 1247 PDP-Context-Type 1248 MMBox-Storage-Requested 1249 Service-Specific-Info 1250 Called-Asserted-Identity 1251 Requested-Party-Address 1252 PoC-User-Role 1253 PoC-User-Role-IDs 1254 PoC-User-Role-info-Units 1255 Talk-Burst-Exchange 1256 Service-Generic-Information 1257 Service-Specific-Type	Grouped UTF8String UTF8String Enumerated Enumerated Grouped UTF8String UTF8String Grouped UTF8String Grouped UTF8String Grouped UTF8String Enumerated Grouped Grouped Unsigned32	
1244 Location-Type 1245 Positioning-Data 1246 WLAN-Session-Id 1247 PDP-Context-Type 1248 MMBox-Storage-Requested 1249 Service-Specific-Info 1250 Called-Asserted-Identity 1251 Requested-Party-Address 1252 PoC-User-Role 1253 PoC-User-Role-IDs 1254 PoC-User-Role-info-Units 1255 Talk-Burst-Exchange 1256 Service-Generic-Information	Grouped UTF8String UTF8String Enumerated Enumerated Grouped UTF8String UTF8String Grouped UTF8String Grouped UTF8String Grouped Grouped	

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		
1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	
1403 Software-Version	UTF8String	
1404 QoS-Subscribed	UTF8String	
1405 ULR-Flags	Unsigned32	
1406 ULA-Flags	Unsigned32	
1407 Visited PLMN Id	OctetString	
1408 Requested-EUTRAN-Authentication-Info	Grouped	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped	
1410 Number-Of-Requested-Vectors	Unsigned32	
1411 Re-Synchronization-Info	OctetString	
1412 Immediate-Response-Preferred 1413 Authentication-Info	Unsigned32	
114131AUInentication-into	O	
	Grouped	
1414 E-UTRAN-Vector	Grouped	
1414 E-UTRAN-Vector 1415 UTRAN-Vector	Grouped Grouped	
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector	Grouped Grouped Grouped	
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode	Grouped Grouped	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector	Grouped Grouped Grouped	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode	Grouped Grouped Grouped Enumerated	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB	Grouped Grouped Grouped Enumerated Enumerated Unsigned32	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type	Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags	Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated Unsigned32	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags	Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier	Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status	Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring	Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data	Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement	Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String UTF8String	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator	Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 UTF8String UTF8String Enumerated	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator 1429 APN-Configuration-Profile	Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Grouped	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator	Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 UTF8String UTF8String Enumerated	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator 1429 APN-Configuration-Profile	Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Grouped	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator 1429 APN-Configuration 1431 EPS-Subscribed-QoS-Profile	Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Grouped Grouped	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator 1429 APN-Configuration 1430 APN-Configuration 1431 EPS-Subscribed-QoS-Profile 1432 VPLMN-Dynamic-Address-Allowed	Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Grouped Grouped Grouped Enumerated	29.272 [21]
1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator 1429 APN-Configuration 1431 EPS-Subscribed-QoS-Profile	Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Grouped Grouped Grouped	29.272 [21]

1439 CSG-Subscription-Data Grouped	A 405 AMPD	0	
1438 PDN-GW-Allocation-Type	1435 AMBR	Grouped	
1439 Expiration-Date Enumerated 1439 Expiration-Date Time 1440 RAT-Frequency-Selection-Priority FFS 1441 DAF-Hags Unsigned32 1442 PUA-Flags Unsigned32 1443 NOR-Flags Unsigned32 1444 DAF-Hags Unsigned32 1444 Nor-Hags Unsigned32 1444 Nor-Hags Unsigned32 1444 Nor-Hags Unsigned32 1444 Nor-Hags Unsigned32 1444 Serulpment-Status Enumerated 1445 Equipment-Status Enumerated 1446 Equipment-Status Enumerated 1447 Equipment-Status Enumerated 1447 Equipment-Status Enumerated 1448 Equipment-Status Enumerated 1449 Equipment-Status Enumerated 1449 Equipment-Status Enumerated 1451 Equipment-Status Enumerated 1451 Equipment-Status Enumerated 1452 Equipment-Status Enumerated 1453 Equipment-Status Enumerated 1455 Equipment-Status Enumerated 1455 Equipment-Status Enumerated 1456 Equipment-Status Enumerated 1457 Equipment-Status Enumerated 1458 Equipment-Status Enumerated 1458 Equipment-Status Enumerated 1459 Equipment-Status Enumerated 1460 Equipment-Status Enumerated 1460 Equipment-Status Enumerated 1460 Equipment-Status Enumerated 1460 Equipment-Status Enumerated Enumerated 1460 Equipment-Status Enumerated Enumerated 1470 EQP-Pimpen Enumerated 1471 Expendit Enumerated Enumerated 1471 Expendit Enumerated Enumerated 1471 Expendit Enumerated Enumerated Enumerated 1471 Expendit Enumerated Enumerated 1471 Expendit Enumerated Enumerated 1471 Expendit Enumerated 1471 Enumerated 1471			
1439 Expiration-Date Time Tim			
1440 IDA F-IPags			
1444 PuA-Flags			
1443 NOR-Flags			
1444 User-Id			
1444 15 1445 14	1442 PUA-Flags	Unsigned32	
1446 Regional-Subscription-Zone-Code	1443 NOR-Flags	Unsigned32	
1446 Regional-Subscription-Zone-Code	1444 User-Id	UTF8String	
1446 Regional-Subscription-Zone-Code	1445 Equipment-Status	Enumerated	
1448 XRES		OctetString	
1448 IXRES			
14450 KASME			
1450 KASME			
1451 Reserved			
1452 Trace-Collection-Entity		-	
1455 RES		Address	
1455 RES			
1455 Reserved			
1456 DN-Type		OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature Grouped 1458 Trace-Data Grouped 1459 Trace-Reference OctefString 1460 Reserved			
1458 Trace-Pate Grouped 1450 Trace-Reference OctetString 1460 Reserved 1461 Reserved 1461 Reserved 1462 Trace-Depth Enumerated 1462 Trace-Depth Enumerated 1462 Trace-Depth Enumerated 1463 Trace-NE-Type-List OctetString 1464 Trace-Interface-List OctetString 1466 Trace-Event-List OctetString 1466 OMC-Id OctetString 1466 OMC-Id OctetString 1466 OMC-Id OctetString 1467 OPRS-Subscription-Data Grouped 1468 Complete-Data-List-Included-Indicator Enumerated 1469 PDP-Context Grouped 1470 PDP-Type OctetString 1471 OPP-Type OctetString 1471 OPP-Type OctetString 1471 OPP-Type OctetString 1472 Opecific-APN-Info Grouped 1473 LCS-Info Grouped 1474 OPP-Type OctetString 1474 OPP-Type OctetString OctetString 1474 OPP-Type OctetString OctetString OctetString 1474 OPP-Type OctetString			
1450 Trace-Reference OctetString 1460 Reserved			
1461 Reserved			
1461 Reserved		OctetString	
Tace-Depth		-	
1463 Trace-Interface-List		-	
1464 Trace-Interface-List		Enumerated	
Tace-Event-List	1463 Trace-NE-Type-List	OctetString	
1466 OMC-Id OctetString Grouped	1464 Trace-Interface-List	OctetString	
1466 OMC-Id OctetString 1467 GPRS-Subscription-Data Grouped 1468 Complete-Data-List-Included-Indicator Enumerated 1469 PDP-Context Grouped 1470 PDP-Type OctetString 1471 3GPP2-MEID OctetString 1472 Specific-APN-Info Grouped 1473 LCS-Info Grouped 1474 GMLC-Number OctetString 1475 LCS-PrivacyException Grouped 1476 SS-Code OctetString 1477 SS-Status Grouped 1478 Notification-To-UE-User Enumerated 1479 External-Client Grouped 1480 Client-Identity OctetString 1481 GMLC-Restriction Enumerated 1481 GMLC-Restriction Enumerated 1482 PLMN-Client Enumerated 1483 Service-Type 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 Unsigned32 1489 SGSN-Number OctetString Unsigned32 1490 IDR-Flags Unsigned32 Unsigned32 1500 Non-3GPP-User-Data Grouped 1480 Call-Barring-Infor-List Grouped 1500 Non-3GPP-IP-Access Enumerated 1501 Non-3GPP-IP-Access Enumerated 1502 Non-3GPP-IP-Access Enumerated 1503 Non-3GPP-IP-Access Enumerated 1504 ANID UTF8String 1505 Trace-Info UTF8String 1505 Trace-	1465 Trace-Event-List	OctetString	
1467 GPRS-Subscription-Data Grouped 1468 Complete-Data-List-Included-Indicator Enumerated 1469 PDP-Context Grouped 1470 PDP-Type OctetString 1471 3GPP2-MEID OctetString 1472 Specific-APN-Info Grouped 1473 LCS-Info Grouped 1474 GMLC-Number OctetString 1475 LCS-PrivacyException Grouped 1476 SS-Code OctetString 1477 SS-Status Grouped 1478 Notification-To-UE-User Enumerated 1479 External-Client Grouped 1478 GMLC-Restriction Enumerated 1480 Client-Identity OctetString 1481 GMLC-Restriction Enumerated 1482 PLMN-Client Enumerated 1483 Service-Type Grouped 1484 Service-Type Grouped 1485 MO-LR Grouped 1486 Teleservice-List Grouped 1487 TS-Code Enumerated 1488 Call-Barring-Infor-List Grouped 1489 Call-Barring-Infor-List Grouped 1480 Call-Barring-Infor-List Grouped 1480 Call-Barring-Infor-List Grouped 1480 Call-Barring-Infor-List Grouped 1481 Call-Barring-Infor-List Grouped 1482 Call-Barring-Infor-List Grouped 1483 Call-Barring-Infor-List Grouped 1484 Call-Barring-Infor-List Grouped 1485 Call-Barring-Infor-List Grouped 1486 Call-Barring-Infor-List Grouped 1487 TS-Code Enumerated 1488 Call-Barring-Infor-List Grouped 1490 IDR-Flags Unsigned32 Note: The AVP codes from 1491 to 1499 are reserved for TS 29.272. 1500 Non-3GPP-IP-Access Enumerated 1501 Non-3GPP-IP-Access-APN Enumerated 1502 Non-3GPP-IP-Access-APN Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF8String 1505 Trace-Info Grouped Note: The AVP codes from 1506 to 1599 are reserved for TS 29.273	1466 OMC-ld		
1468 Complete-Data-List-Included-Indicator Grouped 1470 PDP-Type OctelString 1471 3GPP2-MEID OctelString 1472 Specific-APN-Info Grouped 1473 LCS-Info Grouped 1474 GMLC-Number OctelString 1475 LCS-Info Grouped 1476 SS-Code Grouped 1477 SS-Status Grouped 1478 Notification-To-UE-User Enumerated 1479 External-Client Grouped 1480 Client-Identity OctelString 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 Grouped 1488 Call-Barring-Infor-List Grouped 1489 SGSN-Number OctelString 1490 IDR-Flags Unsigned32 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 1505 Trace-Info Grouped 1505 Trace-Info Grouped 1506 Note: The AVP codes from 1506 to 1599 are reserved for TS 29.273	1467 GPRS-Subscription-Data		
1469 PDP-Context			
1470 PDP-Type			
1471 3GPP2-MEID			
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 Service-Type Identity Unsigned32 1485 MO-LR Grouped 1486 Teleservice-List Grouped 1487 TS-Code Enumerated 1489 Call-Barring-Infor-List Grouped 1489 Call-Barring-Infor-List Grouped 1489 IDR-Flags Unsigned32 Note: The AVP codes from 1491 to 1499 are reserved for TS 29.272. Enumerated <td< td=""><td></td><td></td><td></td></td<>			
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 Service-Type Grouped 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 Note: The AVP codes from 1491 to 1499 are reserved for TS 29.272. 1500 Non-3GPP-IP-Access Enumerated 1501 Non-3GPP-IP-Access Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF8String 1505 Trace-Info Grouped Note: The AVP codes from 1506 to 1599 are reserved for TS 29.273 1506 Note: The AVP codes from 1506 to 1599 are reserved for TS 29.273 1507 Tace-Info Grouped 1508 Note: The AVP codes from 1506 to 1599 are reserved for TS 29.273 1509 Tace-Info Grouped 1501 Tace-Info Grouped 1502 Tace-Info Grouped 1503 Tace-Info Grouped 1504 Note: The AVP codes from 1506 to 1599 are reserved for TS 29.273			
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1504 ANID UTF8String 1505 Trace-Info Grouped Note: The AVP codes from 1506 to 1599 are reserved for TS 29.273			20.210 [20]
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Note: The AVP codes from 1506 to 1599 are reserved for TS 29.273			
		l Grouped	
2000 Sivio-information Grouped 32.299 [5]		Crounce	22 200 [5]
	2000 SMS-Information	Grouped	32.299 [5]

		1	
	Data-Coding-Scheme	Integer32	
	Destination-Interface	Grouped	
	Interface-Id	UTF8String	
	Interface-Port	UTF8String	
	Interface-Text	UTF8String	
2006	Interface-Type	Enumerated	
2007	Message-Type	Enumerated	
2008	Originating-SCCP-Address	Address	
	Originator-Interface	Grouped	
	Recipient-SCCP-Address	Address	
	Reply-Path-Requested	Enumerated	
	SM-Discharge-Time	Time	
	SM-Protocol-ID	OctetString	
	SM-Status		
		OctetString	
	SM-User-Data-Header	OctetString	
	SMS-Node	Enumerated	
	SMSC-Address	Address	
	Client-Address	Address	
	Number-of-Messages-Sent	Unsigned32	
	Low-Balance-Indication	Enumerated	
	Remaining-Balance	Grouped	
	Refund-Information	OctetString	
	Carrier-Select-Routing-Information	UTF8String	
	Number-Portability-Routing-Information	UTF8String	
	PoC-Event-Type	Enumerated	
	Recipient-Info		
		Grouped	
	Originator-Received-Address	Grouped	
	Recipient-Received-Address	Grouped	
	SM-Service-Type	Enumerated	
	MMTel-Information	Grouped	
	Service-Type	Unsigned32	
2032	Service-Mode	Unsigned32	
2033	Subscriber-Role	Enumerated	
2034	Number-Of-Diversions	Unsigned32	
	Associated-Party-Address	UTF8String	
	SDP-Type	Enumerated	
	Change-Condition	Integer32	
	Change-Time	Time	
	Diagnostics	Integer32	
		_	
	Service-Data-Container	Grouped	
	Start-Time	Time	
	Stop-Time	Time	
	Time-First-Usage	Time	
	Time-Last-Usage	Time	
	Time-Usage	Unsigned32	
2046	Traffic-Data-Volumes	Grouped	
	Serving-Node-Type	Enumerated	
	Supplementary-Service	Grouped	
	Participant-Action-Type	Enumerated	
	Reserved	Endinerated	
		- Enumerated	
	Dynamic-Address-Flag	Enumerated	
	Accumulated-Cost	Grouped	
	AoC-Cost-Information	Grouped	
	AoC-Information	Grouped	
	AoC-Request-Type	Enumerated	
	Current-Tariff	Grouped	
2057	Next-Tariff	Grouped	
	Rate-Element	Grouped	
	Scale-Factor	Grouped	
	Tariff-Information	Grouped	
	Unit-Cost	Grouped	
	Incremental-Cost	Grouped	
	Local-Sequence-Number The AVR and a from 2004 to 2000 are recommed for TS 22 200	Unsigned32	
IINUte.	The AVP codes from 2064 to 2099 are reserved for TS 32.299		
	reserved	_	32.299 [5]

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	-	
2110 IM-Information	Grouped	
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112 Number-Of-Messages-Successfully-Sent	Unsigned32	
2113 Total-Number-Of-Messages-Exploded	Unsigned32	
2114 Total-Number-Of-Messages-Sent	Unsigned32	
2115 DCD-Information	Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String	
Note: The AVP codes from 2118 to 2199 are reserved for TS 32.299		
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
2202 Subsession-Id	Unsigned32	29.215 [22]
2203 Subsession-Operation	Enumerated]
2204 Multiple-BBERF-Action	Enumerated	
Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215	·	

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	AMETER_SUCCESS_SERVER_NAME_NOT_STORED					
2005	precated value					
Note: The Experim	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.					
2021	AMETER_PDP_CONTEXT_DELETION_INDICATION 29.061 [13]					
Note: The Experim	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
	DIAMETER HOER RATA NOT AVAILABLE	00.000 (4)
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS	
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.	
		29.061 [13]
Note: The Experime	ntal Result Codes from 4121 to 4140 are reserved for the TS 29.061.	
4141	DIAMETER_PCC_BEARER_EVENT	29.212 [19]
Note: The Experime	ntal Result Codes from 4142 to 4160 are reserved for the TS 29.212	
		32.299 [5]
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.	
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	29.272 [21]
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.	

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER ERROR IDENTITY NOT REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	29.229 [2]
5007	DIAMETER ERROR IN ASSIGNMENT TYPE	
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5011	DIAMETER ERROR FEATURE UNSUPPORTED	
	erimental Result Codes from 5012 to 5020 are reserved for the TS	3 29 229
Note. The Expe	eninerital Nesalt Codes from 5012 to 5020 are reserved for the 10	32.299 [5]
	erimental Result Codes from 5021 to 5040 are reserved for the T	
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC	20 224 [6]
	RIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	
Note: The Expe	erimental Result Codes from 5046 to 5060 are reserved for the TS	3 29.234.
5061	INVALID SERVICE INFORMATION	29.209 [8],
5062	FILTER RESTRICTIONS	29.211 [17]
	erimental Result Codes from 5063 to 5080 are reserved for TS 29	
29.2	211.	
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	00 000 [4]
5105	DIAMETER_ERROR_TRANSPARENT_DATA	29.329 [4]
	OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER ERROR DSAI_NOT_AVAILABLE	
Note: The Expe	erimental Result Codes from 5109 to 5119 are reserved for the TS	S 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]
	E	
5123	DIAMETER_ERROR_SERVICE_AREA erimental Result Codes from 5124 to 5139 are reserved for the TS	S 20 061
		23.001.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	29.212 [19]
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	1
5143	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	
Note: The Expe	erimental Result Codes from 5144 to 5159 are reserved for the TS	S 29,212.
5401	DIAMETER ERROR IDENTITY 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	3 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	_0.100.
	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5421	· · · · · · · · · · · · · · · · · · ·	
5421 5422	DIAMETER ERROR EQUIPMENT UNKNOWN	
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN erimental Result Codes from 5423 to 5449 are reserved for the TS	S 29.272
5422 Note: The Expe	erimental Result Codes from 5423 to 5449 are reserved for the TS	S 29.272.
5422	erimental Result Codes from 5423 to 5449 are reserved for the TS DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTION	
5422 Note: The Expe	erimental Result Codes from 5423 to 5449 are reserved for the TS DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI	5 29.272. 29.273 [20]
5422 Note: The Expe 5450	erimental Result Codes from 5423 to 5449 are reserved for the TS DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTION	

5470	DIAMETER_ERROR _SUBSESSION	29.215 [22]
Note: The Expe	rimental Result Codes from 5471 to 5489 are reserved for the Ta	S 29.215.

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

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

		1			Assignment)		
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	0127	2	Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691	0128	1	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	0132		Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0133		Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033	0134	2	Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0137	1	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	0142	1	Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299	0129	4	Update of the AVP Codes	8.5.0	8.6.0
	ĺ	CP-090299	0143		AVP code reservation for TS 32.299		
		CP-090299	0145		Diameter Command Codes for S6a/S6d/S13/S13"		
			0146		Removal of Requesting Node Type from AIR		
		CP-090299	0147		S6b Application ID		
2009-09	CT#45	CP-090530	0149		Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
		CP-090530	0152		AVP code allocation for TS 29.212		
		CP-090531	0150		Update of the AVP type for the User-Id		
		CP-090531	0153		Trace Depth per session		
2009-12	CT#46	CP-091032	0155		From GMLC-Address to GMLC-Number	8.7.0	8.8.0
			0159		Session-Priority AVP		
			0165		Missing AVP error codes		
2010-03	CT#47	CP-100031	0157	2	Wildcarded Public Identity	8.8.0	8.9.0
		CP-100033	0179	1	One time notification AVP allocation		1
2010-06	CT#48	CP-100263	0187	1	AVP Codes for PCC	8.9.0	8.10.0

History

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