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> Diameter applications; 3GPP specific codes and identifiers (3GPP TS 29.230 version 12.13.0 Release 12)



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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

[13]

[14]

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.
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	ne 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: "Telecommunication management; Charging management; Diameter charging applications".
[6]	3GPP TS 29.234, Release 11: "3GPP system to Wireless Local Area Network (WLAN) interworking; Stage 3".
[7]	3GPP TS 29.109: "Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Stage $3$ ".
[8]	3GPP TS 29.209, Release 6: "Policy control over Gq interface".
[9]	IETF RFC 3588: "Diameter Base Protocol".
[10]	IETF RFC 3589: "Diameter Command Codes for Third Generation Partnership Project (3GPP) Release 5".
[11]	IANA's Enterprise-Numbers: <a href="http://www.iana.org/assignments/enterprise-numbers">http://www.iana.org/assignments/enterprise-numbers</a>
[12]	IANA's AAA parameters register: <a href="ftp://ftp.iana.org/assignments/aaa-parameters/">ftp://ftp.iana.org/assignments/aaa-parameters/</a>

packet based services and Packet Data Networks (PDN)".

System (OCS): Applications and interfaces".

[16] 3GPP TS 29.140 Release 6: "Multimedia Messaging Service (MMS); MM10 interface based on Diameter protocol; Stage 3".

3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting

3GPP TS 32.296: "Telecommunication management; Charging management; Online Charging

[17]	3GPP TS 29.211, Release 6: "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 (PCC);Reference points".
[20]	3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces".
[21]	3GPP TS 29.272: "Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol".
[22]	3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point; Stage 3".
[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 (LCS); Evolved Packet Core (EPC) LCS Protocol (ELP) between the Gateway Mobile Location Centre (GMLC) and the Mobile Management Entity (MME); SLg interface".
[25]	3GPP TS 29.173: "Location Services (LCS); Diameter-based SLh interface for Control Plane LCS".
[26]	3GPP TS 29.219: "Policy and Charging Control: Spending Limit Reporting over Sy reference point".
[27]	3GPP TS 29.368: "Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS)".
[28]	3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications".
[29]	3GPP TS 29.337: "Diameter-based T4 interface for communications with packet data networks and applications".
[30]	3GPP TS 29.338: "Diameter based protocols to support SMS capable MMEs".
[31]	3GPP TS 29.468: "Group Communication System Enablers for LTE (GCSE_LTE)".
[32]	3GPP TS 29.343: " Proximity-services (ProSe) function to ProSe application server aspects (PC2)".
[33]	3GPP TS 29.344: "Proximity-services (ProSe) Function to Home Subscriber Server (HSS) aspects".
[34]	3GPP TS 29.345: "Inter-Proximity-services (Prose) function signalling aspects; Stage 3".

## 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]
16777302	3GPP Sy	29.219 [26]
16777303	3GPP Sd	29.212 [19]
16777308	3GPP S7a	29.272 [21]
16777309	3GPP Tsp	29.368 [27]
16777310	3GPP S6m	29.336 [28]
16777311	3GPP T4	29.337 [29]
16777312	3GPP S6c	29.338 [30]
16777313	3GPP SGd	29.338 [30]
16777318	3GPP S15	29.212 [19]
16777319	3GPP S9a	29.215 [22]
16777320	3GPP S9a*	29.215 [22]
16777335	3GPP MB2-C	29.468 [31]
16777336	3GPP PC4a	29.344 [33]
16777337	3GPP PC2	29.343 [32]
16777340	3GPP PC6/PC7	29.345 [34]

#### 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	Command name		Abbreviation	Spe	ecified in		
value				30	GPP TS		
300	User-Authorization-Request/-A	nswer	UAR/UAA				
301	Server-Assignment-Request/-A	Answer	SAR/SAA				
302	Location-Info-Request/-Answe	r	LIR/LIA	29.229 [2]			
303	Multimedia-Auth-Request/-Ans	wer	MAR/MAA				
304	Registration-Termination-Requ	iest/-	RTR/RTA			1	
	Answer						
305	Push-Profile-Request/-Answer		PPR/PPA				
306	User-Data-Request/-Answer		UDR/UDA				
307	Profile-Update-Request/-Answer		PUR/PUA	20	9.329 [4]		
308	Subscribe-Notifications-Reque	st/-Answer	SNR/SNA	<	9.329 [4]		
309	Push-Notification-Request/-An	swer	PNR/PNA				
310	Boostrapping-Info-Request/An	swer	BIR/BIA	29	9.109 [7]		
	311 Messa	ge-Process-F	Request/Answer		MPR/MI		
	312 GBAPı	ısh-Info-Reai	uest/Answer	·	GPR/G		

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	00 470 [04]
8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]
8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]
8388635	Spending-Limit-Request/Answer	SLR/SLA	
8388636	Spending-Status-Notification-	SNR/SNA	29.219 [26]
	Request/Answer		
8388637	TDF-Session-Request/Answer	TSR/TSA	29.212 [19]
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]
8388639	Device-Action-Request/Answer	DAR/DAA	00 000 [07]
8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]
8388643	Device-Trigger-Request/Answer	DTR/DTA	20 227 [20]
8388644	Delivery-Report-Request/Answer	DRR/DRA	29.337 [29]
8388645	MO-Forward-Short-Message Request/Answer	OFR/OFA	
8388646	MT-Forward-Short-Message Request/Answer	TFR/TFA	
8388647	Send-Routing-Info-for-SM- Request/Answer	SRR/SRA	29.338 [30]
8388648	Alert-Service-Centre-Request/Answer	ALR/ALA	]
8388649	Report-SM-Delivery-Status- Request/Answer	RDR/RDA	
8388656	Trigger-Establishment-Request/Answer	TER/TEA	29.215 [30]
8388662	GCS-Action-Request/Answer	GAR/GAA	
8388663	GCS-Notification-Request/Answer	GNR/GNA	29.468 [31]
8388664	ProSe-Subscriber-Information- Request/Answer	PIR/PIA	
8388665	Update-ProSe-Subscriber-Data- Request/Answer	UPR/UPA	29.344 [33]
8388666	ProSe-Notify-Request/Answer	PNR/PNA	
8388713	ProSe-Initial-Location-Information- Request/Answer	PSR/PSA	
8388668	ProSe-Authorization-Request/Answer	PAR/PAA	
8388669	ProSe-Discovery-Request/Answer	PDR/PDA	
8388670	ProSe-Match-Request/Answer	PMR/PMA	
8388671	ProSe-Match-Report-Info- Request/Answer	PIR/PIA	29.345 [34]
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	
8388674	ProSe-Alert-Request/Answer	ALR/ALA	
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	
8388676	ProXimity-Action-Request/Answer	PXR/PXA	29.343 [32]

## 6 Vendor identifier

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

#### 6.1 3GPP's vendor identifier

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

## 7 Attribute-Value-Pair codes

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

## 7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
	3GPP-WLAN-QoS-Filter-Support	OctetString	
	The AVP codes from 1 to 255 are reserved for backwards compatibili	ty with 3GPP RADIUS Ve	endor Specific
	ites (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	
304	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	20.20 1 [0]
	Session-Request-Type	Enumerated	
	Routing-Policy	IPFilterRule	
	Max-Requested-Bandwidth	OctetString	
	Charging-Characteristics	Integer	
	Charging-Nodes	Grouped	
	Primary-OCS-Charging-Function-Name	DiameterIdentity	
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
	3GPP-AAA-Server-Name	DiameterIdentity	
	Maximum-Number-Accesses	Unsigned32	
	: The AVP codes from 320 to 399 are reserved for TS 29.234		
	2: The 3GPP-AAA-Server-Name definition is moved to TS 29.273 sta		1
	GBA-UserSecSettings Transaction-Identifier	OctetString OctetString	_
	NAF-Hostname	OctetString	-
	GAA-Service-Identifier	OctetString	1
	Key-ExpiryTime	Time	
405	ME-Key-Material	OctetString	
406	UICC-Key-Material	OctetString	
	GBA_U-Áwareness-Indicator	Enumerated	
	BootstrapInfoCreationTime GUSS-Timestamp	Time Time	-
410	GBA-Type	Enumerated	29.109 [7]
	UE-Id	OctetString	
412	UE-Id-Type	Enumerated	
413	UICC-App-Label	OctetString	
	UICC-ME	Enumerated	
415	Requested-Key-Lifetime Private-Identity-Request	Time Enumerated	-
	GBA-Push-Info	OctetString	-
	NAF-SA-Identifier	OctetString	1
419	Security-Feature-Request	OctetString	
420	Security-Feature-Response	OctetString	
	The AVP codes from 421 to 499 are reserved for TS 29.109		
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	]
	Access-Network-Charging-Identifier	Grouped	]
	Access-Network-Charging-Identifier-Value	OctetString	]
	AF-Application-Identifier	OctetString	]
	AF-Charging-Identifier	OctetString	
	Authorization-Token	OctetString	29.209 [8],
	Flow-Description	IPFilterRule	29.211 [17] ,
	Flow-Grouping	Grouped	29.214 [18]
	Flow-Number	Unsigned32	
	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	
	Media-Component-Number	Unsigned32	
	Media-Sub-Component AVP	Grouped	
	Media-Type	Enumerated	
521	RR-Bandwidth	Unsigned32	
522	RS-Bandwidth	Unsigned32	
	SIP-Forking-Indication	Enumerated	
524	Codec-Data	OctetString	
525	Service-URN	OctetString	
526	Acceptable-Service-Info	Grouped	
527	Service-Info-Status	Enumerated	
528	MPS-Identifier	OctetString	
529	AF-Signalling-Protocol	Enumerated	
	Sponsored-Connectivity-Data	Grouped	
531	Sponsor-Identity	OctetString	
	Application-Service-Provider-Identity	OctetString	
	Rx-Request-Type	Enumerated	
	Min-Requested-Bandwidth-DL	Unsigned32	
	Min-Requested-Bandwidth-UL	Unsigned32	
	Required-Access-Info	Enumerated	
	IP-Domain-Id	OctetString	
	GCS-Identifier	OctetString	
	The AVP codes from 539 to 599 are reserved for TS 29.209, TS 29.2		
	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-Number-Autritiems 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 Charging Information	Grouped	
	Primary-Event-Charging-Function-Name	DiameterURI	
	Secondary-Event-Charging-Function-Name	DiameterURI	29.229 [2]
	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
	User-Authorization-Type	Enumerated	
	User-Data-Already-Available	Enumerated	
	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
	Supported-Features	Grouped	
629	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
	Supported-Applications	Grouped	
	Associated-Identities	Grouped	
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
	SCSCF-Restoration-Info	Grouped	
	Path	OctetString	
	1	- 3.0.019	

644	Contact	OctotCtring	1
	Contact Subscription-Info	OctetString Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	
	Record-Route	OctetString	
	Associated-Registered-Identities	Grouped	
	Multiple-Registration-Indication	Enumerated	
	Restoration-Info	Grouped	
	Session-Priority	Enumerated	
	Identity-with-Emergency-Registration	Grouped	
	Priviledged-Sender-Indication	Enumerated	
	LIA-Flags	Unsigned32	
	Initial-CSeq-Sequence-Number	Unsigned32	
	SAR-Flags	Unsigned32	
	Allowed-WAF-WWSF-Identities	Grouped	
	WebRTC-Authentication-Function-Name	UTF8String	
	WebRTC-Web-Server-Function-Name	UTF8String	
	The AVP codes from 659 to 699 are reserved for TS 29.229.		
	User-Identity MOLORN	Grouped	
	MSISDN	OctetString	
	User-Data	OctetString	
	Data-Reference	Enumerated	
	Service-Indication	OctetString	
705	Subs-Req-Type	Enumerated	
	Requested-Domain	Enumerated	
	Current-Location	Enumerated	
	Identity-Set	Enumerated	
	Expiry-Time	Time	
710	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	29.329 [4]
712	One-Time-Notification	Enumerated	
713	Requested-Nodes	Unsigned32	
714	Serving-Node-Indication	Enumerated	
715	Repository-Data-ID	Grouped	
716	Sequence-Number	Unsigned32	
717	Pre-paging-Supported	Enumerated	
	Local-Time-Zone-Indication	Enumerated	
719	UDR-Flags	Unsigned32	
720	Call-Reference-Info	Grouped	
	Call-Reference-Number	OctetString	
722	AS-Number	OctetString	
Note:	The AVP codes from 723 to 799 are reserved for TS 29.329.	<u> </u>	
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
	Event-Type	Grouped	
	SIP-Method	UTF8String	
	Event	UTF8String	
	Content-Type	UTF8String	
	Content-Length	Unsigned32	
	Content-Disposition	UTF8String	
	Role-of-Node	Enumerated	
	User-Session-Id	UTF8String	
	Calling-Party-Address	UTF8String	
	Called-Party-Address	UTF8String	
	Time-Stamps	Grouped	32.299 [5]
	SIP-Request-Timestamp	Time	02.200 [0]
	SIP-Response-Timestamp	Time	
	Application-Server	UTF8String	
	Application-server Application-provided-called-party-address	UTF8String	
	Application-provided-called-party-address Inter-Operator-Identifier	Grouped	
		UTF8String	
	Originating-IOI		
	Terminating-IOI	UTF8String	
	IMS-Charging-Identifier	UTF8String	
	SDP-Session-Description	UTF8String	
1 043	SDP-Media-Component	Grouped	

OAA ODD Madia Nama	LITEOOtiin m	
844 SDP-Media-Name	UTF8String	
845 SDP-Media-Description	UTF8String	
846 CG-Address	Address	
847 GGSN-Address	Address	
848 Served-Party-IP-Address	Address	
849 Authorized-QoS	UTF8String	
850 Application-Server-Informatio		
851 Trunk-Group-Id	Grouped	
852 Incoming-Trunk-Group-Id	UTF8String	
853 Outgoing-Trunk-Group-Id	UTF8String	
854 Bearer-Service	OctetString	
855 Service-Id	UTF8String	
856 Associated-URI	UTF8String	
857 Charged-Party	UTF8String	
858 PoC-Controlling-Address		
	UTF8String	
859 PoC-Group-Name	UTF8String	
860 Cause	Grouped	
861 Cause-Code	Integer32	
862 Node-Functionality	Enumerated	
863 Service-Specific-Data	UTF8String	
864 Originator		
	Enumerated	
865 PS-Furnish-Charging-Informa		
866 PS-Free-Format-Data	OctetString	
867 PS-Append-Free-Format-Dat		
868 Time-Quota-Threshold	Unsigned32	
869 Volume-Quota-Threshold	Unsigned32	
870 Trigger-Type	Enumerated	
871 Quota-Holding-Time	Unsigned32	
872 Reporting-Reason	Enumerated	
873 Service-Information	Grouped	
874 PS-Information	Grouped	
875 Reserved	-	
876 IMS-Information	Grouped	
877 MMS-Information	Grouped	
878 LCS-Information	Grouped	
879 PoC-Information	Grouped	
880 MBMS-Information	Grouped	
881 Quota-Consumption-Time	Unsigned32	
882 Media-Initiator-Flag	Enumerated	
883 PoC-Server-Role	Enumerated	
884 PoC-Session-Type	Enumerated	
, i		
885 Number-Of-Participants	Unsigned32	
886 Originator-Address	Grouped	
887 Participants-Involved	UTF8String	
888 Expires	Unsigned32	
889 Message-Body	Grouped	
890 Reserved	-	
	-	
891 Reserved	-	
892 Reserved	-	
893 Reserved	-	
894 Reserved	-	
895 Reserved	-	
896 Reserved	_	
897 Address-Data	UTF8String	
898 Address-Domain	Grouped	
899 Address-Type	Enumerated	
900 TMGI	OctectString	
901 Required-MBMS-Bearer-Cap		
902 MBMS-StartStop-Indication	Enumerated	
903 MBMS-Service-Area	OctectString	29.061 [13]
904 MBMS-Session-Duration	Unsigned32	1
905 Alternative-APN	UTF8String	
906 MBMS-Service-Type	Enumerated	
907 MBMS-2G-3G-Indicator	Enumerated	

9.08 MBMS-Session-Identity		<u>,                                      </u>		
910   MBMS-Session-Identity-Repetition-Number				
911   MBMS-Time-To-Data-Transfer				
912   MBMS-Respired-QoS	910	Additional-MBMS-Trace-Info		
913 MBMS-Required-QoS				
914 MBMS-Gounting-Information Enumerated 915 MBMS-GSSN-Bush-Dakthode-Indication 916 MBMS-GGSN-Address 917 MBMS-GGSN-Address 917 MBMS-GGSN-Pv-R-Address 918 MBMS-BMSC-SSM-IP-Address 919 MBMS-BMSC-SSM-IP-Address 919 MBMS-BMSC-SSM-IP-Address 910 MBMS-Flow-Identifier 920 MBMS-Flow-Identifier 921 CN-IP-Multicast-Distribution 922 MBMS-C-Indicator 923 MBMS-C-SSM-IP-Address 924 MBMS-C-Indicator 925 MBMS-C-Indicator 926 MBMS-Flow-Identifier 927 MBMS-GW-SSM-IP-Address 928 MBMS-GW-SSM-IP-Address 928 MBMS-GW-SSM-IP-Address 929 MBMS-GW-SSM-IP-Address 920 MBMS-GW-SSM-IP-Address 921 MBMS-GW-SSM-IP-Address 922 MBMS-GW-SSM-IP-Address 923 MBMS-GW-SSM-IP-Address 924 MBMS-GW-SSM-IP-Address 925 MBMS-GW-SSM-IP-Address 926 MBMS-BMS-C-SSM-UDP-Port 927 MBMS-GW-UDP-Port Indicator 928 MBMS-GW-UDP-Port Indicator 929 MBMS-BMS-C-SSM-UDP-Port 929 MBMS-GW-UDP-Port-Indicator 920 MBMS-GW-UDP-Port-Indicator 921 MBMS-GW-UDP-Port-Indicator 922 MBMS-GW-UDP-Port-Indicator 923 MBMS-GW-UDP-Port-Indicator 924 MBMS-GW-UDP-Port-Indicator 925 MBMS-GW-UDP-Port-Indicator 926 MBMS-GW-UDP-Port-Indicator 927 MBMS-GW-UDP-Port-Indicator 928 MBMS-GW-UDP-Port-Indicator 929 MBMS-GW-UDP-Port-Indicator 920 MBMS-GW-UDP-Port-Indicator 920 MBMS-GW-UDP-Port-Indicator 921 MBMS-GW-UDP-Port-Indicator 922 MBMS-GW-UDP-Port-Indicator 923 MBMS-GW-UDP-Port-Indicator 924 MBMS-GW-UDP-Port-Indicator 925 MBMS-GW-UDP-Port-Indicator 926 MBMS-GW-UDP-Port-Indicator 927 MBMS-GW-UDP-Port-Indicator 928 MBMS-GW-UDP-Port-Indicator 929 MBMS-GW-UDP-Port-Indicator 929 MBMS-GW-UDP-Port-Indicator 920 MBMS-GW-UDP-Port-Indicator 920 MBMS-GW-UDP-Port-Indicator 920 MBMS-GW-UDP-Port-Indicator 920 MBMS-GW-UDP-Port-Indicator 920 MBMS-GW-UDP-Port-Indicator 920 MBMS-GW-UDP-Port-Indicator 921 MBMS-GW-UDP-Port-Indicator 922 MBMS-GW-UDP-Port-Indicator 923 MBMS-GW-UD				
916 MBMS-GSN-Horber Address UTF8String 917 MBMS-GGSN-Poddress UTF8String 918 MBMS-BMSC-SSM-Pre-Address UTF8String 919 MBMS-BMSC-SSM-Pre-Address UTF8String 920 MBMS-Pre-Meditation Enumerated 921 MBMS-G-Indicator Enumerated 922 MBMS-HC-Indicator Enumerated 923 MBMS-Access-Indicator Enumerated 924 MBMS-GW-SSM-Pre-Address OctefString 926 MBMS-GW-SSM-Pre-Address OctefString 927 MBMS-GW-SSM-Pre-Address OctefString 928 MBMS-GW-SSM-Pre-Address OctefString 928 MBMS-BMSC-SSM-UDP-Port OctefString 928 MBMS-GW-UDP-Port-Indicator 929 MBMS-Data-Transfer-Stor Unsigned64 930 MBMS-Data-Transfer-Stor 931 MBMS-Flags Unsigned64 931 MBMS-Flags Unsigned64 932 Restart-Counter 1033 Diagnostic-Info Note: The AVP codes from 934 to 999 are reserved for TS 29.061 1000 Rearer-Usage Enumerated 1001 Charging-Rule-Install Grouped 1002 Charging-Rule-Pentall 1003 Charging-Rule-Pentall 1004 Charging-Rule-Pentall 1005 Charging-Rule-Pentall 1006 Event-Tragger Enumerated 1007 Metering-Hule-Base-Name UTF8String 1006 Charging-Rule-Pentall 1007 Metering-Hule-Base-Name UTF8String 1006 Charging-Rule-Rest-Name Unsigned32 1017 FF-Ritter 1018 FT-Fitter 1018 FT-Fitter 1019 FCC-Rule-Status Enumerated 1017 IFT-Fitter 1019 FCC-Rule-Status Enumerated 1017 IFT-Fitter 1019 FCC-Rule-Status Enumerated 1019 CG-Rule-Status Enumerated 1010 Gearer-Identifier OctefString 102 Gearer-Identifier OctefString 103 Go-Al-P-Address Address Ad				
916 MBMS-GGSN-Address			Enumerated	
MBMS-GGSNI-Py6-Address	915	MBMS-User-Data-Mode-Indication	Enumerated	
918 MBMS-BMSC-SSM-IP-Wo-Address				
MBMS-BMSC-SSM-IPv6-Address				
2021   CNLP-Multicast-Distribution	918	MBMS-BMSC-SSM-IP-Address	UTF8String	
921 (CN-IP-Multicast-Distribution Enumerated 922 (MBMS-MC-Indicator Enumerated 923 (MBMS-MC-Indicator Enumerated 924 (MBMS-ACcess-Indicator CotetString 925 (MBMS-GW-SSM-IP-Mc-Address CotetString 926 (MBMS-GW-SSM-IP-Mc-Address CotetString 927 (MBMS-GW-SSM-IP-Mc-Address CotetString 928 (MBMS-GW-SSM-IP-Mc-Address CotetString 929 (MBMS-GW-UDP-Port CotetString 929 (MBMS-GW-UDP-Port CotetString 929 (MBMS-GW-UDP-Port CotetString 929 (MBMS-GW-UDP-Port CotetString 920 (MBMS-Data-Transfer-Start Unsigned64 930 (MBMS-Data-Transfer-Start Unsigned64 931 (MBMS-Data-Transfer-Start Unsigned64 932 (Restart-Counter Unsigned64 933 (Dispractic-Info 932 (Dispractic-Info 933 (Dispractic-Info 934 (Dispractic-Info 935 (Dispractic-Info 945 (Dispractic-Info 946 (Dispractic-Info 947 (Dispractic-Info 947 (Dispractic-Info 948 (Dispractic-Info 948 (Dispractic-Info 949 (Dispractic-Info 950 (Darging-Rule-Info 96 (Dispractic-Info 96 (Dispractic-Info 97 (Dispractic-Info 97 (Dispractic-Info 97 (Dispractic-Info 98 (Dispractic-Info 99 (Disp			UTF8String	
MBMS-HC-Indicator	920	MBMS-Flow-Identifier	OctetString	
MBMS-Access-Indicator	921	CN-IP-Multicast-Distribution	Enumerated	
MBMS-GW-SSM-IP-Address   OctelString	922	MBMS-HC-Indicator	Enumerated	
MBMS-GW-SSM-IPV6-Address   OctetString	923	MBMS-Access-Indicator	Enumerated	
MBMS-BMSC-SSM-UDP-Port	924	MBMS-GW-SSM-IP-Address	OctetString	
MBMS-GW-UDP-Port	925	MBMS-GW-SSM-IPv6-Address	OctetString	
MBMS-GW-UDP-Port	926	MBMS-BMSC-SSM-UDP-Port		
MBMS-Gw-UDP-Port-Indicator			ŭ	
MBMS-Data-Transfer-Stop			ŭ	
331   MBMS-Pata-Transfer-Stop				
MBMS-Flags				
932   Diagnostic-Info				
1933   Diagnostic-Info				
Note: The AVP codes from 934 to 999 are reserved for TS 29.061				
D000   Bearer-Usage			5s.gss=	
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   OoS-Information   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-DL   Unsigned32   1027   IP-CAN-Type   Enumerated   1028   QoS-Class-Identifier   Enumerated   1029   QoS-Negotiation   Enumerated   1030   QoS-Negotiation   Enumerated   1031   Rule-Failure-Code   Enumerated   1032   RAT-Type   Enumerated   1033   Con-IP-Address   Address   1036   Tunnel-Header-Filter   IPFilterRule   1037   Tunnel-Header-Filter   IPFilterRule   1038   Tunnel-Header-Length   Unsigned32   1037   Tunnel-Header-Length   Unsigned32   1038   Tunnel-Information   Grouped   1039   Tunnel-Information   Grouped   1030   Tunnel-Information   Grouped   1031   Tunnel-Information   Grouped   1032   Tunnel-Information   Grouped   1033   Tunnel-Information   Grouped   1034   Tunnel-Information   Grouped   1035   Tunnel-Information   Grouped   1036   Tunnel-Information   Grouped   1037   Tunnel-Information   Grouped   1038   Tunnel-Information   Grouped   1039   Tunnel-Information   Grouped   1030   Tunnel-Information   Grouped   1031   Tunnel-Information   Grouped   1032   Tunnel-Information   Grouped   1033   Tunnel-Information   Grouped			Enumerated	
1002   Charging-Rule-Remove   Grouped				
1003   Charging-Rule-Definition				
1004   Charging-Rule-Base-Name				
1005   Charging-Rule-Name				
1006   Event-Trigger				
1007   Metering-Method				
1008 Offline				
1009 Online				
1010   Precedence				
1011 Reporting-Level				
TFT-Filter				
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       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-Filter     IPFilterRule       1038 Tunnel-Information     Grouped				
1016QoS-InformationGrouped1018Charging-Rule-ReportGrouped1019PCC-Rule-StatusEnumerated1020Bearer-IdentifierOctetString1021Bearer-OperationEnumerated1022Access-Network-Charging-Identifier-GxGrouped1023Bearer-Control-ModeEnumerated1024Network-Request-SupportEnumerated1025Guaranteed-Bitrate-DLUnsigned321026Guaranteed-Bitrate-ULUnsigned321027IP-CAN-TypeEnumerated1028QoS-Class-IdentifierEnumerated1029QoS-NegotiationEnumerated1030QoS-UpgradeEnumerated1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped				
1018Charging-Rule-ReportGrouped1019PCC-Rule-StatusEnumerated1020Bearer-IdentifierOctetString1021Bearer-OperationEnumerated1022Access-Network-Charging-Identifier-GxGrouped1023Bearer-Control-ModeEnumerated1024Network-Request-SupportEnumerated1025Guaranteed-Bitrate-DLUnsigned321026Guaranteed-Bitrate-ULUnsigned321027IP-CAN-TypeEnumerated1029QoS-Class-IdentifierEnumerated1030QoS-UpgradeEnumerated1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped			•	
1019 PCC-Rule-Status				
1020Bearer-IdentifierOctetString1021Bearer-OperationEnumerated1022Access-Network-Charging-Identifier-GxGrouped1023Bearer-Control-ModeEnumerated1024Network-Request-SupportEnumerated1025Guaranteed-Bitrate-DLUnsigned321026Guaranteed-Bitrate-ULUnsigned321027IP-CAN-TypeEnumerated1028QoS-Class-IdentifierEnumerated1029QoS-NegotiationEnumerated1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped				
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     1035   CoA-IP-Address   Address     1036   Tunnel-Header-Filter   IPFilterRule     1037   Tunnel-Header-Length   Unsigned32     1038   Tunnel-Information   Grouped     1038   Tunnel-Information   Grouped     1039   Tunnel-Information   Grouped     1030   Grouped   Grouped     1031   Tunnel-Information   Grouped     1032   Grouped   Grouped     1033   Tunnel-Information   Grouped     1034   Grouped   Grouped     1035   Grouped   Grouped     1036   Grouped   Grouped     1037   Tunnel-Information   Grouped     1038   Grouped   Grouped     1039   Grouped   Grouped     1030   Grouped   Grouped     1031   Grouped   Grouped     1032   Grouped   Grouped     1033   Grouped   Grouped   Grouped     1034   Grouped   Grouped   Grouped     1035   Grouped   Grouped   Grouped     1036   Grouped				
1022Access-Network-Charging-Identifier-GxGrouped1023Bearer-Control-ModeEnumerated1024Network-Request-SupportEnumerated1025Guaranteed-Bitrate-DLUnsigned321026Guaranteed-Bitrate-ULUnsigned321027IP-CAN-TypeEnumerated1028QoS-Class-IdentifierEnumerated1029QoS-NegotiationEnumerated1030QoS-UpgradeEnumerated1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped			Ŭ	29.212 [19]
1023Bearer-Control-ModeEnumerated1024Network-Request-SupportEnumerated1025Guaranteed-Bitrate-DLUnsigned321026Guaranteed-Bitrate-ULUnsigned321027IP-CAN-TypeEnumerated1028QoS-Class-IdentifierEnumerated1029QoS-NegotiationEnumerated1030QoS-UpgradeEnumerated1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped				
1024Network-Request-SupportEnumerated1025Guaranteed-Bitrate-DLUnsigned321026Guaranteed-Bitrate-ULUnsigned321027IP-CAN-TypeEnumerated1028QoS-Class-IdentifierEnumerated1029QoS-NegotiationEnumerated1030QoS-UpgradeEnumerated1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped		0 0	,	
1025Guaranteed-Bitrate-DLUnsigned321026Guaranteed-Bitrate-ULUnsigned321027IP-CAN-TypeEnumerated1028QoS-Class-IdentifierEnumerated1029QoS-NegotiationEnumerated1030QoS-UpgradeEnumerated1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped				
1026Guaranteed-Bitrate-ULUnsigned321027IP-CAN-TypeEnumerated1028QoS-Class-IdentifierEnumerated1039QoS-NegotiationEnumerated1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped				
1027IP-CAN-TypeEnumerated1028QoS-Class-IdentifierEnumerated1029QoS-NegotiationEnumerated1030QoS-UpgradeEnumerated1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped				
1028QoS-Class-IdentifierEnumerated1029QoS-NegotiationEnumerated1030QoS-UpgradeEnumerated1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped				
1029QoS-NegotiationEnumerated1030QoS-UpgradeEnumerated1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped				
1030QoS-UpgradeEnumerated1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped				
1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped				
1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped				
1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped				
1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped				
1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped				
1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped				
1037 Tunnel-Header-LengthUnsigned321038 Tunnel-InformationGrouped				
1038 Tunnel-Information Grouped				
1039 CoA-Information Grouped				
	1039	CoA-Information	Grouped	

4040 ADNI A serre sete Mey Ditrote DI	Linainna d20	1
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32	1
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	1
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	1
1057 Flow-Label	OctetString	1
1058 Flow-Information	Grouped	-
		-
1059 Packet-Filter-Content	IPFilterRule	Á
1060 Packet-Filter-Identifier	OctetString	4
1061 Packet-Filter-Information	Grouped	1
1062 Packet-Filter-Operation	Enumerated	]
1063 Resource-Allocation-Notification	Enumerated	
1064 Session-Linking-Indicator	Enumerated	1
1065 PDN-Connection-ID	OctetString	1
1066 Monitoring-Key	OctetString	1
1067 Usage-Monitoring-Information	Grouped	-
		-
1068 Usage-Monitoring-Level	Enumerated	
1069 Usage-Monitoring-Report	Enumerated	
1070 Usage-Monitoring-Support	Enumerated	
1071 CSG-Information-Reporting	Enumerated	
1072 Packet-Filter-Usage	Enumerated	
1073 Charging-Correlation-Indicator	Enumerated	1
1074 QoS-Rule-Base-Name	UTF8String	1
1075 Routing-Rule-Remove	Grouped	1
1076 Routing-Rule-Remove	Grouped	-
1077 Routing-Rule-Definition		_
	OctetString	-
1078 Routing-Filter	Grouped	_
1079 Routing-IP-Address	Address	
1080 Flow-Direction	Enumerated	
1081 Routing-Rule-Install	Grouped	
1082 Credit-Management-Status	Unsigned32	
1085 Redirect-Information	Grouped	1
1086 Redirect- Support	Enumerated	1
1087 TDF-Information	Grouped	1
1088 TDF-Application-Identifier	OctetString	1
		1
1089 TDF-Destination-Host	DiameterIdentity	4
1090 TDF-Destination-Realm	DiameterIdentity	4
1091 TDF-IP-address	Address	_
1092 ADC-Rule-Install	Grouped	ĺ
1093 ADC-Rule-Remove	Grouped	
1094 ADC-Rule-Definition	Grouped	1
1095 ADC-Rule-Base-Name	UTF8String	1
1096 ADC-Rule-Name	OctetString	1
1097 ADC-Rule-Report	Grouped	1
		1
1009 Application Detection Information	Grouped	-
1099 PS-to-CS-Session-Continuity	Enumerated	
1099 PS-to-CS-Session-Continuity Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212		1
1099 PS-to-CS-Session-Continuity Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212 1100 Served-User-Identity	Groupe	
1099 PS-to-CS-Session-Continuity Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212 1100 Served-User-Identity 1101 VASP-ID		
1099 PS-to-CS-Session-Continuity Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212 1100 Served-User-Identity 1101 VASP-ID	Groupe	20.440.540
1100 Served-User-Identity 1101 VASP-ID 1102 VAS-ID	Groupe UTF8Str UTF8String	29.140 [16]
	Groupe UTF8Str	29.140 [16]

	Result-Recipient-Address	Grouped	
	Sequence-Number	Unsigned32	
	Recipient-Address	UTF8String	
	Routeing-Address	UTF8String	
	Originating-Interface	Enumerated	
	Delivery-Report	Enumerated	
	Read-Reply	Enumerated	
	Sender-Visibility	Enumerated	
	Service-Key	UTF8String	
	Billing-Information	UTF8String	
	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	
	Submission-Time	Time	
1203	MM-Content-Type	Grouped	
	Type-Number	Enumerated	
	Additional-Type-Information	UTF8String	
	Content-Size	Unsigned32	
	Additional-Content-Information	Grouped	
	Addressee-Type	Enumerated	
	Priority	Enumerated	
	Message-ID	UTF8String	
	Message-Type	Enumerated	
	Message-Size	Unsigned32	
	Message-Class	Grouped	
	Class-Identifier	Enumerated	
	Token-Text	UTF8String	
	Delivery-Report-Requested	Enumerated	
	Adaptations	Enumerated	
	Applic-ID	UTF8String	
	Aux-Applic-Info	UTF8String	
	Content-Class	Enumerated	
	DRM-Content	Enumerated	
	Read-Reply-Report-Requested	Enumerated	
	Reply-Applic-ID	UTF8String	
	File-Repair-Supported	Enumerated	
	MBMS-User-Service-Type	Enumerated	32.299 [5]
	Unit-Quota-Threshold	Unsigned32	
	PDP-Address	Address	
	SGSN-Address	Address	
	PoC-Session-Id	UTF8String	
	Deferred-Location-Even-Type	UTF8String	
	LCS-APN	UTF8String	
	LCS-Client-Id	Grouped	
	LCS-Client-Dialed-By-MS	UTF8String	
	LCS-Client-External-ID	UTF8String	
	LCS-Client-Name	Grouped	
1236	LCS-Data-Coding-Scheme	UTF8String	
1237	LCS-Format-Indicator	Enumerated	
	LCS-Name-String	UTF8String	
	LCS-Requestor-Id	Grouped	
	LCS-Requestor-Id-String	UTF8String	
	LCS-Client-Type	Enumerated	
	Location-Estimate	OctetString	
	Location-Estimate-Type	Enumerated	
	Location-Type	Grouped	
	Positioning-Data	UTF8String	
	Reserved	-	
	PDP-Context-Type	Enumerated	
	MMBox-Storage-Requested	Enumerated	
	Service-Specific-Info	Grouped	
	Called-Asserted-Identity	UTF8String	
1230	Caned-Moderted-Identity	UTFOSHING	

1		
1251 Requested-Party-Address	UTF8String	
1252 PoC-User-Role	Grouped	
1253 PoC-User-Role-IDs	UTF8String	
1254 PoC-User-Role-info-Units	Enumerated	
1255 Talk-Burst-Exchange	Grouped	
1256 Service-Generic-Information	Grouped	
1257 Service-Specific-Type	Unsigned32	
1258 Event-Charging-TimeStamp	Time	
1259 Participant-Access-Priority	Enumerated	
1260 Participant-Group	Grouped	
1261 PoC-Change-Conditions	Enumerated	
1262 PoC-Change-Time	Time	
1263 Access-Network-Information	OctetString	
1264 Trigger	Grouped	
1265 Base-Time-Interval	Unsigned32	
1266 Envelope	Grouped	
1267 Envelope-End-Time	Time	
1268 Envelope-Reporting	Enumerated	
1269 Envelope-Start-Time	Time	
1270 Time-Quota-Mechanism	Grouped	
1271 Time-Quota-Type	Enumerated	
1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps	Grouped	
1274 SDP-Offer-Timestamp	Time	
1275 SDP-Answer-Timestamp	Time	
1276 AF-Correlation-Information	Grouped	
1277 PoC-Session-Initiation-type	Enumerated	
1278 Offline-Charging	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286   Talk-Burst-Time   1287   Talk-Burst-Volume	Unsigned32	
	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
Note: The AVP codes from 1289 to 1399 are reserved for TS		
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	Unsigned32 29.272 [21]	
1413 Authentication-Info	Groupea	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	
1417 Network-Access-Mode	Enumerated	
1418 HPLMN-ODB	Enumerated	
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
c_operate. Determined barring	STOIGHOUGE	

1426 Access-Restriction-Data	UTF8String	
1427 APN-OI-Replacement	UTF8String	
1428 All-APN-Configurations-Included-Indicator	Enumerated	
1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile 1432 VPLMN-Dynamic-Address-Allowed	Grouped Enumerated	
1433 STN-SR		
1433 STN-SR 1434 Alert-Reason	OctetString Enumerated	
1435 AMBR	Grouped	
1436 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	
1441 IDA-Flags	Unsigned32	
1442 PUA-Flags	Unsigned32	
1443 NOR-Flags	Unsigned32	
1444 User-Id	UTF8String	
1445 Equipment-Status	Enumerated	
1446 Regional-Subscription-Zone-Code	OctetString	
1447 RAND	OctetString	
1448 XRES	OctetString	
1449 AUTN	OctetString	
1450 KASME	OctetString	
1451 Reserved		
1452 Trace-Collection-Entity	Address	
1453 Kc	OctetString	
1454 SRES	OctetString	
1455 Reserved 1456 PDN-Type	- Enumerated	
1455   PDN-Type   1457   Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated Enumerated	
1458 Trace-Data	Grouped	
1459 Trace-Reference	OctetString	
1460 Reserved		
1461 Reserved	_	
1462 Trace-Depth	Enumerated	
1463 Trace-NE-Type-List	OctetString	
1464 Trace-Interface-List	OctetString	
1465 Trace-Event-List	OctetString	
1466 OMC-Id	OctetString	
1467 GPRS-Subscription-Data	Grouped	
1468 Complete-Data-List-Included-Indicator	Enumerated	
1469 PDP-Context	Grouped	
1470 PDP-Type	OctetString	
1471 3GPP2-MEID	OctetString	
1472 Specific-APN-Info	Grouped	
1473 LCS-Info	Grouped	
1474 GMLC-Number	OctetString	
1475 LCS-PrivacyException	Grouped	
1476 SS-Code	OctetString	
1477 SS-Status	OctetString	
1478 Notification-To-UE-User	Enumerated	
1479 External-Client	Grouped	
1480 Client-Identity 1481 GMLC-Restriction	OctetString Enumerated	
1482 PLMN-Client	Enumerated	
1483 Service-Type	Grouped	
1484 Service-Type 1484 Service-TypeIdentity	Unsigned32	
1485 MO-LR	Grouped	
1486 Teleservice-List	Grouped	
1487 TS-Code	Enumerated	
1488 Call-Barring-Info	Grouped	
1489 SGSN-Number	OctetString	
1490 IDR-Flags	Unsigned32	
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1491 ICS-Indicator	Enumerated	
1492 IMS-Voice-Over-PS-Sessions-Supported	Enumerated	
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated	
1494 Last-UE-Activity-Time	Time	
1495 EPS-User-State	Grouped	
1496 EPS-Location-Information	Grouped	
1497 MME-User-State	Grouped	
1498 SGSN-User-State	Grouped	
1499 User-State	Enumerated	
1500 Non-3GPP-User-Data	Grouped	
1501 Non-3GPP-IP-Access	Enumerated	
1502 Non-3GPP-IP-Access-APN	Enumerated	
1503 AN-Trusted	Enumerated	
1504 ANID	UTF8String	
1505 Trace-Info 1506 MIP-FA-RK	Grouped	
1500 MIP-FA-RK 1507 MIP-FA-RK-SPI	OctetString Unsigned32	
1508 PPR-Flags	Unsigned32	
1509 WLAN-Identifier	Grouped	
1510 TWAN-Access-Info	Grouped	
1511 Access-Authorization-Flags	Unsigned32	
1512 TWAN-Default-APN-Context-Id	Unsigned32	
1513 Reserved	-	
1514 Reserved	-	
1515 Reserved	-	
1516 Full-Network-Name	OctetString	
1517 Short-Network-Name	OctetString	
1518 AAA-Failure-Indication	Unsigned32	29.273 [20]
1519 Transport-Access-Type	Enumerated	
1520 DER-Flags	Unsigned32	
1521 DEA-Flags	Unsigned32	
1522 RAR-Flags	Unsigned32	
1523 DER-S6b-Flags	Unsigned32	
1524 SSID	UTF8String	
1525 HESSID	UTF8String	
1526 Access-Network-Info	Grouped	
1527 TWAN-Connection-Mode	Unsigned32 Grouped	
1528 TWAN-Connectivity-Parameters	Unsigned32	
1529 Connectivity-Flags 1530 TWAN-PCO	OctetString	
1531 TWAG-CP-Address	Address	
1532 TWAG-UP-Address	UTF8String	
1533 TWAN-S2a-Failure-Cause	Unsigned32	
1534 SM-Back-Off-Timer	Unsigned32	
1535 WLCP-Key	OctetString	
318 3GPP-AAA-Server-Name	DiameterIdentity	
Note 1: The AVP codes from 1536 to 1599 are reserved for TS 29.273	Diamotoridontity	
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP	TS 29.234 and is now def	ined in 3GPP TS
29.273 from Rel-12.		
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	00.075.55.5
1607 Service-Area-Identity	OctetString	29.272 [21]
1608 Geographical-Information	OctetString	
1609 Geodetic-Information	OctetString	
1610 Current-Location-Retrieved	Enumerated	
1611 Age-Of-Location-Information 1612 Active-APN	Unsigned32	
1612 ACTIVE-APN 1613 SIPTO-Permission	Grouped Enumerated	
1614 Error-Diagnostic	Enumerated	
1017   ΕΠΟΙ-μιαθηρούιο	Liidillelated	

1015 HE 001/00 0 17%		
1615 UE-SRVCC-Capability	Enumerated	
1616 MPS-Priority 1617 VPLMN-LIPA-Allowed	Unsigned32 Enumerated	
1617 VPLMN-LIPA-Allowed 1618 LIPA-Permission	Enumerated	
1619 Subscribed-Periodic-RAU-TAU-Timer	Unsigned32	
1620 Ext-PDP-Type	OctetString	
1621 Ext-PDP-Address	Address	
1622 MDT-Configuration	Grouped	
1623 Job-Type	Enumerated	
1624 Area-Scope	Grouped	
1625 List-Of-Measurements	Unsigned32	
1626 Reporting-Trigger	Unsigned32	
1627 Report-Interval	Enumerated	
1628 Report-Amount	Enumerated	
1629 Event-ThresholdRSRP	Unsigned32	
1630 Event-ThresholdRSRQ	Unsigned32	
1631 Logging-Interval	Enumerated	
1631 Logging-Interval	Enumerated	
1632   Logging-Duration 1633   Relay-Node-Indicator	Enumerated	
1633 Relay-Node-Indicator 1634 MDT-User-Consent	Enumerated	
1635 PUR-Flags	Unsigned32	
1636 Subscribed-VSRVCC	Enumerated	
1637 Equivalent-PLMN-List	-	
1637 Equivalent-PLIVIN-LIST 1638 CLR-Flags	Grouped Unsigned32	
1639 UVR-Flags	Unsigned32	
1639 UVA-Flags 1640 UVA-Flags	Unsigned32 Unsigned32	
1640 VPLMN-CSG-Subscription-Data	Grouped	
1641 Time-Zone	UTF8String	
1643 A-MSISDN	OctetString	
1644 Reserved	- Octetoring	
1645 MME-Number-for-MT-SMS	- OctetString	
1646 Reserved	- Octetoring	
1647 Reserved	-	
1648 SMS-Register-Request	Enumerated	
1649 Local-Time-Zone	Grouped	
1650 Daylight-Saving-Time	Enumerated	
1651 GMLC-Info	Grouped	
1652 GMLC-Name	DiameterIdentity	
1653 GMLC-Name	DiameterIdentity	
1654 Subscription-Data-Flags	Unsigned32	
1655 Measurement-Period-LTE	Enumerated	
1656 Measurement-Period-UMTS	Enumerated	
1657 Collection-Period-RRM-LTE		
	Enumerated	
	Enumerated Enumerated	
1658 Collection-Period-RRM-UMTS	Enumerated	
<ul><li>Collection-Period-RRM-UMTS</li><li>Positioning-Method</li></ul>	Enumerated OctetString	
658 Collection-Period-RRM-UMTS   1659 Positioning-Method   1660 Measurement-Quantity	Enumerated OctetString OctetString	
1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F	Enumerated OctetString OctetString Integer32	
1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I	Enumerated OctetString OctetString Integer32 Integer32	
1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32	
1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String	
1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32	
G58   Collection-Period-RRM-UMTS     G59   Positioning-Method     G60   Measurement-Quantity     G61   Event-Threshold-Event-1F     G62   Event-Threshold-Event-1     G63   Restoration-Priority     G64   SGs-MME-Identity     G65   SIPTO-Local-Network-Permission     G66   Coupled-Node-Diameter-ID	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity	
1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped	
G58 Collection-Period-RRM-UMTS G59 Positioning-Method G60 Measurement-Quantity G61 Event-Threshold-Event-1F G62 Event-Threshold-Event-1I G63 Restoration-Priority G64 SGs-MME-Identity G65 SIPTO-Local-Network-Permission G66 Coupled-Node-Diameter-ID G67 WLAN-offloadability G68 WLAN-offloadability-EUTRAN	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32	
Gest Collection-Period-RRM-UMTS Gest Positioning-Method Gest Measurement-Quantity Gest Event-Threshold-Event-1F Gest Event-Threshold-Event-1I Gest Restoration-Priority Gest SGs-MME-Identity Gest SIPTO-Local-Network-Permission Gest Coupled-Node-Diameter-ID Gest WLAN-offloadability Gest WLAN-offloadability-EUTRAN Gest SIPTO-Local-Network-Permission Gest WLAN-offloadability-EUTRAN Gest WLAN-offloadability-UTRAN	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	
658 Collection-Period-RRM-UMTS 659 Positioning-Method 660 Measurement-Quantity 661 Event-Threshold-Event-1F 662 Event-Threshold-Event-1I 663 Restoration-Priority 664 SGs-MME-Identity 665 SIPTO-Local-Network-Permission 666 Coupled-Node-Diameter-ID 667 WLAN-offloadability 668 WLAN-offloadability-EUTRAN 669 WLAN-offloadability-UTRAN 670 Reset-ID	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 OctetString	
658 Collection-Period-RRM-UMTS 659 Positioning-Method 660 Measurement-Quantity 661 Event-Threshold-Event-1F 662 Event-Threshold-Event-1I 663 Restoration-Priority 664 SGs-MME-Identity 665 SIPTO-Local-Network-Permission 666 Coupled-Node-Diameter-ID 667 WLAN-offloadability 668 WLAN-offloadability-EUTRAN 669 WLAN-offloadability-UTRAN 670 Reset-ID 671 MDT-Allowed-PLMN-Id	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	
658 Collection-Period-RRM-UMTS 659 Positioning-Method 660 Measurement-Quantity 661 Event-Threshold-Event-1F 662 Event-Threshold-Event-1I 663 Restoration-Priority 664 SGs-MME-Identity 665 SIPTO-Local-Network-Permission 666 Coupled-Node-Diameter-ID 667 WLAN-offloadability 668 WLAN-offloadability-EUTRAN 669 WLAN-offloadability-UTRAN 670 Reset-ID 671 MDT-Allowed-PLMN-Id lote: The AVP codes from 1672 to 1699 are reserved for TS 29.272.	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 OctetString OctetString	
Collection-Period-RRM-UMTS Collection-Period-RRM-UMTS Collectioning-Method Collectioning-Meth	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 OctetString OctetString	
Collection-Period-RRM-UMTS Collection-Period-RRM-UMTS Collectioning-Method Collectioning-Method Collectioning-Method Collectioning-Method Collectioning-Method Collectioning-Method Collectioning-Method Collectioning-Method Collectioning-Collectioning Collectioning-Collectioning Collectioning-Collectioning Collectioning-Collectioning Collectioning-Collectioning Collectioning-Collectioning Collectioning-Collection Collectioning-Collectioning Collection-Period-RRM-UMTS Collection-Period-RRM-UMTS Collection-Period-RRM-UMTS Collection-Period-Removed-Period-Collectioning Collection-Period-RRM-UMTS Collection-Period-Removed-Period-Collection Collection-Period-Removed-Period-Collection Collection-Period-Removed-Period-Collection-Collection Collection-Period-RRM-UMTS Collection-Period-Removed-Period-Collection-P	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 OctetString OctetString Grouped Integer32	
Collection-Period-RRM-UMTS Desitioning-Method Measurement-Quantity Measurement-Priority Measurement-Priority Measurement-Measurement Measurement Measurement-Measurement Measurement Measurement-Measurement Measurement Measurem	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 OctetString OctetString Grouped Integer32 Grouped	22 200 IE
Collection-Period-RRM-UMTS Desitioning-Method Measurement-Quantity Measurement-Measurement-II Measurement-Measurement Measurement Measurement-II Measurement Measurem	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Grouped Integer32 Grouped Unteger32 Grouped UTF8String	32.299 [5]
Collection-Period-RRM-UMTS Desitioning-Method Measurement-Quantity Measurement-Measurement-ID Measurement-Measurement Measurement-ID Measurement-II	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Grouped Integer32 Grouped Unteger32 Grouped Unteger32 Grouped UTF8String UTF8String	32.299 [5]
1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability 1668 WLAN-offloadability-EUTRAN 1669 WLAN-offloadability-UTRAN 1670 Reset-ID 1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Text 2006 Interface-Type	Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Grouped Integer32 Grouped Unteger32 Grouped UTF8String	32.299 [5]

2007 CM Massage 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	
2018 Client-Address	Address	
2019 Number-of-Messages-Sent	Unsigned32	
2020 Low-Balance-Indication	Enumerated	
2021 Remaining-Balance	Grouped	
2022 Refund-Information	OctetString	
2023 Carrier-Select-Routing-Information	UTF8String	
2024 Number-Portability-Routing-Information	UTF8String	
2025 PoC-Event-Type	Enumerated	
2026 Recipient-Info	Grouped	
2027 Originator-Received-Address	Grouped	
2028 Recipient-Received-Address	Grouped	
2029 SM-Service-Type	Enumerated	
2030 MMTel-Information	Grouped	
2031 MMTel-Sservice-Type	Unsigned32	
2032 Service-Mode	Unsigned32	
2033 Subscriber-Role	Enumerated	
2034 Number-Of-Diversions	Unsigned32	
2035 Associated-Party-Address	UTF8String	
2036 SDP-Type	Enumerated	
2037 Change-Condition	Integer32	
2038 Change-Time	Time	
2039 Diagnostics	Integer32	
2040 Service-Data-Container	Grouped	
2041 Start-Time	Time	
2042 Stop-Time	Time	
2043 Time-First-Usage	Time	
2044 Time-Last-Usage	Time	
2045 Time-Usage	Unsigned32	
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2046 Traffic-Data-Volumes	Grouped	
2047 Serving-Node-Type	Enumerated	
2048 Supplementary-Service	Grouped	
2049 Participant-Action-Type	Enumerated	
2050 PDN-Connection-Charging-ID	Unsigned32	
2051 Dynamic-Address-Flag	Enumerated	
2052 Accumulated-Cost	Grouped	
2053 AoC-Cost-Information	Grouped	
2054 AoC-Information	Grouped	
2055 AoC-Request-Type	Enumerated	
2056 Current-Tariff	Grouped	
2057 Next-Tariff	Grouped	
2058 Rate-Element	Grouped	
2059 Scale-Factor	Grouped	
2060 Tariff-Information	Grouped	
2061 Unit-Cost	Grouped	
2062 Incremental-Cost	Grouped	
2063 Local-Sequence-Number	Unsigned32	
2064 Node-Id	UTF8String	]
2065 SGW-Change	Enumerated	1
2066 Charging-Characteristic-Selection-Mode	Enumerated	1
2067 SGW-Address	Address	1
2068 Dynamic-Address-Flag-Extension	Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.		<u>I</u>
2100 reserved	-	
2101 Application-Server-ID	UTF8String	32.299 [5]
[2101   Αρβιιοατίοι το στν στο το	1 OTT OSTITING	<u> </u>

2102   Application-Service-Type	<u></u>	<u>,                                      </u>	
2106	2102 Application-Service-Type	Enumerated	
2106   reserved			
100   International Content   Cont		UTF8String	
2107   risserved		-	
100   Inserved		-	
2109   Information		-	
2110   Mi-Information		-	
		-	
2112   Number-Of-Messages-Successfully-Sent			
2113   Total-Number-Of-Messages-Sent	2111 Number-Of-Messages-Successfully-Exploded		
2114   Total-Number-Of-Messages-Sent			
2115   DCD-Information			
2116   Content-ID		Unsigned32	
2117   Content-provider-ID			
2118   Charge-Reason-Code			
Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299.		UTF8String	
2001   Subsession-Decision-Info   Grouped   Grouped   Grouped   2021   Subsession-Enforcement-Info   Grouped   2022   Subsession-Operation   Enumerated   2024   Multiple-BERF -Action   Enumerated   2024   Multiple-BERF -Action   Enumerated   2026   DRA-Deployment   Enumerated   2026   DRA-Binding   Enumerated   2027   DRA-Binding   Enumerated   2028   DRA-Binding   Enumerated   2029   DRA-Binding   Enumerated   2020   SIP-Response-Timestamp-Fraction   Unsigned32   2031   SIP-Response-Timestamp-Fraction   Unsigned32   2030   Online-Charging-Flag   Enumerated   2030   Coll-Information   OctetString   Grouped   2030   Account-Expiration   Grouped   2030   Account-Expiration   Time   2030   Account-Expiration   Enumerated   2030   Account-Expiration   Enumerated   2031   AoC-Service-Obligatory-Type   Grouped   2031   AoC-Service-Obligatory-Type   Enumerated   2031   AoC-Service-Type   2031   AoC-Service-Type   2031   AoC-Service-Type   2031   AoC-Service-Type   2031   AoC-Service-Type   2031	2118 Charge-Reason-Code	Enumerated	
2013   Subsession-Inforcement-Info			
2020   Subsession-Id			
2003   Subsession-Operation			
2020   Multiple-BBERF-Action   Enumerated   29.215 [22]   2205   UE-Local-IPv6-Prefix   OctetString   Cotenary   Cotena		Unsigned32	
2025   UE-Local-IPv6-Prefix   CotetString			
2020   DRA-Deployment			29.215 [22]
DRA-Binding		OctetString	
DRA-Binding			
Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215.	2207 PCRF-Address	DiameterIdentity	
2300   reserved		Enumerated	
2301   SIP-Request-Timestamp-Fraction	Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215.		
2302   SIP-Response-Timestamp-Fraction		-	
2303   Online-Charging-Flag			
2305   CuG-Information			
2305   Real-Time-Tariff-Information   Grouped		Enumerated	
2306   Tariff-XML		OctetString	
2307   MBMS GW-Address   Address   Same   Address   Same   MSI-Unauthenticated-Flag   Enumerated   Same	2305 Real-Time-Tariff-Information	Grouped	
2308   IMSI-Unauthenticated-Flag	2306 Tariff-XML	UTF8String	
2309   Account-Expiration	2307 MBMS GW-Address	Address	
2310   AoC-Format	2308 IMSI-Unauthenticated-Flag	Enumerated	
2311   AoC-Service   Enumerated   2312   AoC-Service-Obligatory-Type   Grouped   Grouped   Caralled   AoC-Service-Type   Enumerated   Grouped   Caralled   AoC-Subscription-Information   Grouped   Caralled   AoC-Subscription-Information   Grouped   Caralled   Car			
2312   AoC-Service-Obligatory-Type   Grouped   2313   AoC-Service-Type   Enumerated   Enumerated   2314   AoC-Subscription-Information   Grouped   Unsigned32   2315   Preferred-AoC-Currency   Unsigned32   2316   Reserved   -	2310 AoC-Format	Enumerated	
2312   AoC-Service-Unigatory-Type   Enumerated		Enumerated	22 200 [5]
2314 AoC-Subscription-Information         Grouped           2315 Preferred-AoC-Currency         Unsigned32           2316 Reserved         -           2317 CSG-Access-Mode         Enumerated           2318 User-CSG-Information         Grouped           2320 Outgoing-Session-Id         UTF8String           2321 Initial-IMS-Charging-Identifier         UTF8String           2322 IMS-Emergency-Indicator         Enumerated           2323 MBMS-Charged-Party         Enumerated           Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.           2400 LMSI         OctetString           2401 Serving-Node         Grouped           2402 MME-Name         DiameterIdentity           2403 MSC-Number         OctetString           2404 LCS-Capabilities-Sets         Unsigned32           2405 GMLC-Address         Address           2406 Additional-Serving-Node         Grouped           2407 PPR-Address         Address           2408 MME-Realm         DiameterIdentity           2409 SGSN-Name         DiameterIdentity           2410 SGSN-Realm         DiameterIdentity	2312 AoC-Service-Obligatory-Type	Grouped	32.299 [3]
2315         Preferred-AoC-Currency         Unsigned32           2316         Reserved         -           2317         CSG-Access-Mode         Enumerated           2318         CSG-Membership-Indication         Enumerated           2319         User-CSG-Information         Grouped           2320         Outgoing-Session-Id         UTF8String           2321         Initial-IMS-Charging-Identifier         UTF8String           2322         IMS-Emergency-Indicator         Enumerated           2323         MBMS-Charged-Party         Enumerated           Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.         OctetString           2400         LMSI         OctetString           2401         Serving-Node         Grouped           2402         MME-Name         DiameterIdentity           2403         MSC-Number         OctetString           2404         LCS-Capabilities-Sets         Unsigned32           2405         GMLC-Address         Address           2406         Additional-Serving-Node         Grouped           2407         PPR-Address         Address           2408         MME-Realm         DiameterIdentity           2409         SGSN-Name		Enumerated	
2316 Reserved         -           2317 CSG-Access-Mode         Enumerated           2318 CSG-Membership-Indication         Enumerated           2319 User-CSG-Information         Grouped           2320 Outgoing-Session-Id         UTF8String           2321 Initial-IMS-Charging-Identifier         UTF8String           2322 IMS-Emergency-Indicator         Enumerated           2323 MBMS-Charged-Party         Enumerated           Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.           2400 LMSI         OctetString           2401 Serving-Node         Grouped           2402 MME-Name         DiameterIdentity           2403 MSC-Number         OctetString           2404 LCS-Capabilities-Sets         Unsigned32           2405 GMLC-Address         Address           2406 Additional-Serving-Node         Grouped           2407 PPR-Address         Address           2408 MME-Realm         DiameterIdentity           2409 SGSN-Name         DiameterIdentity           2410 SGSN-Realm         DiameterIdentity			
2317 CSG-Access-ModeEnumerated2318 CSG-Membership-IndicationEnumerated2319 User-CSG-InformationGrouped2320 Outgoing-Session-IdUTF8String2321 Initial-IMS-Charging-IdentifierUTF8String2322 IMS-Emergency-IndicatorEnumerated2323 MBMS-Charged-PartyEnumeratedNote: The AVP codes from 2324 to 2399 are reserved for TS 32.299.2400 LMSIOctetString2401 Serving-NodeGrouped2402 MME-NameDiameterIdentity2403 MSC-NumberOctetString2404 LCS-Capabilities-SetsUnsigned322405 GMLC-AddressAddress2406 Additional-Serving-NodeGrouped2407 PPR-AddressAddress2408 MME-RealmDiameterIdentity2409 SGSN-NameDiameterIdentity2410 SGSN-RealmDiameterIdentity		Unsigned32	
2318 CSG-Membership-IndicationEnumerated2319 User-CSG-InformationGrouped2320 Outgoing-Session-IdUTF8String2321 Initial-IMS-Charging-IdentifierUTF8String2322 IMS-Emergency-IndicatorEnumerated2323 MBMS-Charged-PartyEnumeratedNote: The AVP codes from 2324 to 2399 are reserved for TS 32.299.2400 LMSIOctetString2401 Serving-NodeGrouped2402 MME-NameDiameterIdentity2403 MSC-NumberOctetString2404 LCS-Capabilities-SetsUnsigned322405 GMLC-AddressAddress2406 Additional-Serving-NodeGrouped2407 PPR-AddressAddress2408 MME-RealmDiameterIdentity2409 SGSN-NameDiameterIdentity2401 SGSN-RealmDiameterIdentity		-	
2319 User-CSG-InformationGrouped2320 Outgoing-Session-IdUTF8String2321 Initial-IMS-Charging-IdentifierUTF8String2322 IMS-Emergency-IndicatorEnumerated2323 MBMS-Charged-PartyEnumeratedNote: The AVP codes from 2324 to 2399 are reserved for TS 32.299.2400 LMSIOctetString2401 Serving-NodeGrouped2402 MME-NameDiameterIdentity2403 MSC-NumberOctetString2404 LCS-Capabilities-SetsUnsigned322405 GMLC-AddressAddress2406 Additional-Serving-NodeGrouped2407 PPR-AddressAddress2408 MME-RealmDiameterIdentity2409 SGSN-NameDiameterIdentity2410 SGSN-RealmDiameterIdentity			
2320Outgoing-Session-IdUTF8String2321Initial-IMS-Charging-IdentifierUTF8String2322IMS-Emergency-IndicatorEnumerated2323MBMS-Charged-PartyEnumeratedNote: The AVP codes from 2324 to 2399 are reserved for TS 32.299.2400LMSIOctetString2401Serving-NodeGrouped2402MME-NameDiameterIdentity2403MSC-NumberOctetString2404LCS-Capabilities-SetsUnsigned322405GMLC-AddressAddress2406Additional-Serving-NodeGrouped2407PPR-AddressAddress2408MME-RealmDiameterIdentity2409SGSN-NameDiameterIdentity2410SGSN-RealmDiameterIdentity			
Initial-IMS-Charging-Identifier   UTF8String     2322   IMS-Emergency-Indicator   Enumerated     2323   MBMS-Charged-Party   Enumerated     Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.			
2322 IMS-Emergency-Indicator Enumerated 2323 MBMS-Charged-Party Enumerated Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.  2400 LMSI OctetString 2401 Serving-Node Grouped 2402 MME-Name DiameterIdentity 2403 MSC-Number OctetString 2404 LCS-Capabilities-Sets Unsigned32 2405 GMLC-Address Address 2406 Additional-Serving-Node Grouped 2407 PPR-Address Address 2408 MME-Realm DiameterIdentity 2409 SGSN-Name DiameterIdentity 2410 SGSN-Realm DiameterIdentity			
2323         MBMS-Charged-Party         Enumerated           Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.           2400         LMSI         OctetString           2401         Serving-Node         Grouped           2402         MME-Name         DiameterIdentity           2403         MSC-Number         OctetString           2404         LCS-Capabilities-Sets         Unsigned32           2405         GMLC-Address         Address           2406         Additional-Serving-Node         Grouped           2407         PPR-Address         Address           2408         MME-Realm         DiameterIdentity           2409         SGSN-Name         DiameterIdentity           2410         SGSN-Realm         DiameterIdentity		UTF8String	
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.           2400 LMSI         OctetString           2401 Serving-Node         Grouped           2402 MME-Name         DiameterIdentity           2403 MSC-Number         OctetString           2404 LCS-Capabilities-Sets         Unsigned32           2405 GMLC-Address         Address           2406 Additional-Serving-Node         Grouped           2407 PPR-Address         Address           2408 MME-Realm         DiameterIdentity           2409 SGSN-Name         DiameterIdentity           2410 SGSN-Realm         DiameterIdentity		Enumerated	
2400         LMSI         OctetString           2401         Serving-Node         Grouped           2402         MME-Name         DiameterIdentity           2403         MSC-Number         OctetString           2404         LCS-Capabilities-Sets         Unsigned32           2405         GMLC-Address         Address           2406         Additional-Serving-Node         Grouped           2407         PPR-Address         Address           2408         MME-Realm         DiameterIdentity           2409         SGSN-Name         DiameterIdentity           2410         SGSN-Realm         DiameterIdentity		Enumerated	
2401         Serving-Node         Grouped           2402         MME-Name         DiameterIdentity           2403         MSC-Number         OctetString           2404         LCS-Capabilities-Sets         Unsigned32           2405         GMLC-Address         Address           2406         Additional-Serving-Node         Grouped           2407         PPR-Address         Address           2408         MME-Realm         DiameterIdentity           2409         SGSN-Name         DiameterIdentity           2410         SGSN-Realm         DiameterIdentity			
2402         MME-Name         DiameterIdentity           2403         MSC-Number         OctetString           2404         LCS-Capabilities-Sets         Unsigned32           2405         GMLC-Address         Address           2406         Additional-Serving-Node         Grouped           2407         PPR-Address         Address           2408         MME-Realm         DiameterIdentity           2409         SGSN-Name         DiameterIdentity           2410         SGSN-Realm         DiameterIdentity			
2403MSC-NumberOctetString2404LCS-Capabilities-SetsUnsigned322405GMLC-AddressAddress2406Additional-Serving-NodeGrouped2407PPR-AddressAddress2408MME-RealmDiameterIdentity2409SGSN-NameDiameterIdentity2410SGSN-RealmDiameterIdentity			
2404LCS-Capabilities-SetsUnsigned322405GMLC-AddressAddress2406Additional-Serving-NodeGrouped2407PPR-AddressAddress2408MME-RealmDiameterIdentity2409SGSN-NameDiameterIdentity2410SGSN-RealmDiameterIdentity		DiameterIdentity	
2405 GMLC-AddressAddress2406 Additional-Serving-NodeGrouped2407 PPR-AddressAddress2408 MME-RealmDiameterIdentity2409 SGSN-NameDiameterIdentity2410 SGSN-RealmDiameterIdentity			
2406Additional-Serving-NodeGrouped2407PPR-AddressAddress2408MME-RealmDiameterIdentity2409SGSN-NameDiameterIdentity2410SGSN-RealmDiameterIdentity		Unsigned32	
2407 PPR-Address Address 2408 MME-Realm DiameterIdentity 2409 SGSN-Name DiameterIdentity 2410 SGSN-Realm DiameterIdentity			20 172 [25]
2408 MME-RealmDiameterIdentity2409 SGSN-NameDiameterIdentity2410 SGSN-RealmDiameterIdentity	2406 Additional-Serving-Node		29.173 [23]
2409SGSN-NameDiameterIdentity2410SGSN-RealmDiameterIdentity		Address	
2410 SGSN-Realm DiameterIdentity		DiameterIdentity	
	2409 SGSN-Name	DiameterIdentity	
2411 RIA-Flags Unsigned32	2410 SGSN-Realm	DiameterIdentity	

Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173.		
2500 SLg-Location-Type	Enumerated	
2501 LCS-EPS-Client-Name	Grouped	
2502 LCS-Requestor-Name	Grouped	
2503 LCS-Priority	Unsigned32	
2504 LCS-QoS	Grouped	
2505 Horizontal-Accuracy	Unsigned32	1
2506 Vertical-Accuracy	Unsigned32	1
2507 Vertical-Requested	Enumerated	1
2508 Velocity-Requested	Enumerated	+
2509 Response-Time	Enumerated	=
2510 Supported-GAD-Shapes	Unsigned32	
2511 LCS-Codeword	UTF8String	
2512 LCS-Privacy-Check	Enumerated	
2513 Accuracy-Fulfilment-Indicator	Enumerated	=
2514 Age-Of-Location-Estimate	Unsigned32	
2515 Velocity-Estimate	OctetString	+
	OctetString	
2516 EUTRAN-Positioning-Data 2517 ECGI		_
	OctetString	=
2518 Location-Event	Enumerated	4
2519 Pseudonym-Indicator	Enumerated	4
2520 LCS-Service-Type-ID	Unsigned32	4
2521 LCS-Privacy-Check-Non-Session	Grouped	4
2522 LCS-Privacy-Check-Session	Grouped	4
2523 LCS-QoS-Class	Enumerated	4
2524 GERAN-Positioning-Info	Grouped	4
2525 GERAN-Positioning-Data	OctetString	4
2526 GERAN-GANSS-Positioning-Data	OctetString	
2527 UTRAN-Positioning-Info	Grouped	29.172 [24]
2528 UTRAN-Positioning-Data	OctetString	
2529 UTRAN-GANSS-Positioning-Data	OctetString	
2530 LRR-Flags	Unsigned32	
2531 LCS-Reference-Number	OctetString	
2532 Deferred-Location-Type	Unsigned32	
2533 Area-Event-Info	Grouped	
2534 Area-Definition	Grouped	
2535 Area	Grouped	
2536 Area-Type	Unsigned32	7
2537 Area-Identification	Grouped	7
2538 Occurrence-Info	Enumerated	7
2539 Interval-Time	Unsigned32	
2540 Periodic-LDR-Information	Grouped	
2541 Reporting-Amount	Unsigned32	1
2542 Reporting-Interval	Unsigned32	1
2543 Reporting-PLMN-List	Grouped	1
2544 PLMN-ID-List	Grouped	┪
2545 PLR-Flags	Unsigned32	┪
2546 PLA-Flags	Unsigned32	1
2547 Deferred-MT-LR-Data	Grouped	1
2548 Termination-Cause	Unsigned32	=
2549 LRA-Flags	Unsigned32	=
2550   Periodic-Location-Support-Indicator	Enumerated	$\dashv$
2550   Periodic-Location-Support-Indicator     2551   Prioritized-List-Indicator	Enumerated	-
2551   Prioritized-List-indicator     2552   ESMLC-Cell-Info		-
	Grouped	=
2553 Cell-Portion-ID 2554 1xRTT-RCID	Unsigned32	=
	OctetString	1
Note: The AVP codes from 2555 to 2599 are reserved for TS 29.172.	<u> </u>	1
	-	4
2600 reserved	UTF8String	4
2601 IMS-Application-Reference-Identifier		
2601 IMS-Application-Reference-Identifier 2602 Low-Priority-Indicator	Enumerated	
2601 IMS-Application-Reference-Identifier 2602 Low-Priority-Indicator 2603 IP-Realm-Default-Indicator	Enumerated Enumerated	32.299 [5]
2601 IMS-Application-Reference-Identifier 2602 Low-Priority-Indicator 2603 IP-Realm-Default-Indicator 2604 Local-GW-Inserted-Indicator	Enumerated Enumerated Enumerated	32.299 [5]
2601 IMS-Application-Reference-Identifier 2602 Low-Priority-Indicator 2603 IP-Realm-Default-Indicator	Enumerated Enumerated	32.299 [5]

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2700 Reserved	-	
2701 Transit-IOI-List	UTF8String	
2702 Status-AS-Code	Enumerated	
2703 NNI-Information	Grouped	
2704 NNI-Type	Enumerated	
2705 Neighbour-Node-Address	Address	1
2706 Relationship-Mode	Enumerated	1
2707 Session-Direction		=
	Enumerated	4
2708 From-Address	UTF8String	32.299 [5]
2709 Access-Transfer-Information	Grouped	02.200 [0]
2710 Access-Transfer-Type	Enumerated	
2711 Related-IMS-Charging-Identifier	UTF8String	
2712 Related-IMS-Charging-Identifier-Node	Address	
2713 IMS-Visited-Network-Identifier	UTF8String	
2714 TWAN-User-Location-Info		4
	Grouped	4
2715 Reserved	-	
2716 BSSID	UTF8String	
2717 TAD-Identifier	Enumerated	
Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299.		•
2800 Reserved	_	
2801 ADC-Revalidation-Time	Time	╡
		-
2802 TDF-Application-Instance-Identifier	OctetString	4
2803 HeNB-BBF-FQDN	UTF8String	_
2804 HeNB-Local-IP-Address	Address	
2805 UE-Local-IP-Address	Address	
2806 UDP-Source-Port	Unsigned32	1
2807 CS-Service-Qos-Request-Identifier	OctetString	1
		+
2808 CS-Service-QoS-Request-Operation	Enumerated	4
2809 Mute-Notification	Enumerated	
2810 Monitoring-Time	Time	
2811 AN-GW-Status	Enumerated	
2812 User-Location-Info-Time	Grouped	
2813 CS-Service-Resource-Report	Time	
2814 CS-Service-Resource-Failure-Cause	Enumerated	29.212 [19]
2815 CS-Service-Resource-Result-Operation	Enumerated	
2816 Default-QoS-Information	Grouped	
2817 Default-QoS-Name	UTF8String	
2818 Conditional-APN-Aggregate-Max-Bitrate	Grouped	
2819 RAN-NAS-Release-Cause	OctetString	
2820 Presence-Reporting-Area-Elements-List	OctetString	
2821 Presence-Reporting-Area-Identifier	OctetString	
	Ŭ	
2822 Presence-Reporting-Area-Information	Grouped	4
2823 Presence-Reporting-Area-Status	Unsigned32	_
2824 NetLoc-Access-Support	Unsigned32	
2825 Fixed-User-Location-Info	Grouped	
2826 PCSCF-Restoration-Indication	Unsigned32	1
2827 IP-CAN-Session-Charging-Scope	Enumerated	1
Note: The AVP codes from 2828 to 2899 are reserved for TS 29.212.	Litamerated	1
		1
2900 reserved	-	4
2901 Policy-Counter-Identifier	Grouped	_
2902 Policy-Counter-Status	UTF8String	
2903 Policy-Counter-Status-Report	Grouped	29.219 [26]
2904 SL-Request-Type	Enumerated	·= · · · [- · ]
2905 Pending-Policy-Counter-Information	Grouped	†
		-
2906 Pending-Policy-Counter-Change-Time	Time	1
Note: The AVP codes from 2907 to 2999 are reserved for TS 29.219.		1
3000 reserved	-	_
3001 Device-Action	Grouped	
3002 Device-Notification	Grouped	
3003 Trigger-Data	Grouped	1
		20 260 [27]
3004 Payload	OctetString	29.368 [27]
3005 Action-Type	Enumerated	_
3006 Priority-Indication	Enumerated	_
3007 Reference-Number	Unsigned32	
3008 Request-Status	Enumerated	7
1		I .

2000 Dolivory Outcomo	Enumerated	
3009 Delivery-Outcome 3010 Application-Port-Identifier	Enumerated Unsigned32	
3011 Old-Reference-Number		
3012 Feature-Supported-In-Final-Target	Unsigned32 Unsigned32	
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.	Unsigneusz	
3100 IP-SM-GW-Number	OctetString	
3101 IP-SM-GW-Name	Diameter Identity	
3102 User-Identifier	Grouped	
3103 Service-ID	Enumerated	
3104 SCS-Identity	OctetString	
3105 Service-Parameters	Grouped	
3106 T4-Parameters	Grouped	20 226 [20]
3100 14-Parameters 3107 Service-Data		29.336 [28]
	Grouped	
3108 T4-Data	Grouped	
3109 HSS-Cause	Unsigned32	
3110 SIR-Flags	Unsigned32	
3111 External-Identifier	UTF8String	
3112 IP-SM-GW-Realm	DiameterIdentity	
Note: The AVP codes from 3113 to 3199 are reserved for TS 29.336.	Co. con a vata d	
3200 SM-Delivery-Outcome-T4	Enumerated	
3201 Absent-Subscriber-Diagnostic-T4	Enumerated	29.337 [29]
3202 Trigger-Action	Unsigned32	
3203 MTC-Error-Diagnostic	Unsigned32	
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.	OototOtiiii ii	
3300 SC-Address	OctetString	
3301 SM-RP-UI	OctetString	
3302 TFR-Flags	Unsigned32	
3303 SM-Delivery- Failure-Cause	Grouped	
3304 SM-Enumerated-Delivery-Failure-Cause	Enumerated	
3305 SM-Diagnostic-Info	OctetString	
3306 SM-Delivery-Timer	Unsigned32	
3307 SM-Delivery-Start-Time	Time	
3308 SM-RP-MTI	Enumerated	
3309 SM-RP-SMEA	OctetString	
3310 SRR-Flags	Unsigned32	
3311 SM-Delivery-Not-Intended	Enumerated	
3312 MWD-Status	Unsigned32	
3313 MME-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	000000
3314 MSC-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	29.338 [30]
3315 SGSN-Absent-User-Subscriber-Diagnostic SM	Unsigned32	
3316 SM-Delivery-Outcome	Grouped	
3317 MME-SM-Delivery-Outcome	Grouped	
3318 MSC-SM-Delivery-Outcome	Grouped	
3319 SGSN-SM-Delivery-Outcome	Grouped	
3320 IP-SM-GW-SM-Delivery-Outcome	Grouped	
3321 SM-Delivery-Cause	Enumerated	
3322 Absent-User-Diagnostic-SM	Unsigned32	
3323 RDR-Flags	Unsigned32	
3324 SMSMI-Correlation-ID	Unsigned32	
3325 HSS-ID	UTF8String	
3326 Originating-SIP-URI	UTF8String	
3327 Destination-SIP-URI	UTF8String	
3328 OFR-Flags	Unsigned32	
Note: The AVP codes from 3329 to 3399 are reserved for TS 29.338.		
3400 Reserved	-	
3401 Reason-Header	UTF8String	
3402 Instance-Id	UTF8String	
3403 Route-Header-Received	UTF8String	
3404 Route-Header-Transmitted		
3405 SM-Device-Trigger-Information	UTF8String	00 000
3406 MTC-IWF-Address	Grouped	32.299 [5]
	Grouped Address	32.299 [5]
3407 SM-Device-Trigger-Indicator	Grouped Address Enumerated	32.299 [5]
3407 SM-Device-Trigger-Indicator 3408 SM-Sequence-Number	Grouped Address Enumerated Unsigned32	32.299 [5]
3407 SM-Device-Trigger-Indicator	Grouped Address Enumerated	32.299 [5]

	Basic-Service-Code	Grouped	
	Bearer-Capability	OctetString	
3413	Teleservice	OctetString	
	ISUP-Location-Number	OctetString	
3415	Forwarding-Pending	Enumerated	
3416	ISUP-Release-Cause	Unsigned32	
3417	MSC-Address	OctetString	
3418	Network-Call-Reference-Number	OctetString	
	Start-of-Charging	Time	
	VLR-Number	OctetString	
	CN-Operator-Selection-Entity	Enumerated	
	ISUP-Cause-Diagnostics	OctetString	
	ISUP-Cause-Location	Unsigned32	
	ISUP-Cause-Value	Unsigned32	
	EPDG-Address	Address	
	Announcing-UE-HPLMN-Identifier	UTF8String	
	Announcing-UE-VPLMN-Identifier		
		UTF8String	
	Coverage-Status	Enumerated	
	Layer-2-Group-ID	OctetString	
	Monitored-PLMN-Identifier	UTF8String	
	Monitoring-UE-HPLMN-Identifier	UTF8String	
	Monitoring-UE-Identifier	UTF8String	
	Monitoring-UE-VPLMN-Identifier	UTF8String	
	ProSe-PC3-Control-Protocol-Cause	Integer32	
	ProSe-PC3-EPC-Control-Protocol-Cause	Integer32	
3436	Requested-PLMN-Identifier	UTF8String	
3437	Requestor-PLMN-Identifier	UTF8String	
3438	Role-Of-ProSe-Function	Enumerated	
3439	Usage-Information-Report-Sequence-Number	Integer32	
3440	ProSe-3rd-Party-Application-ID	UTF8String	
	ProSe-Direct-Communication-Transmission-Data-Container	Grouped	
	ProSe-Direct-Discovery-Model	Enumerated	
	ProSe-Event-Type	Enumerated	
	ProSe-Function-IP-Address	Address	
	ProSe-Functionality	Enumerated	
	ProSe-Group-IP-Multicast-Addresses	Address	
	ProSe-Information	Grouped	
	ProSe-Range-Class	Enumerated	
	ProSe-Reason-For-Cancellation	Enumerated	
	ProSe-Request-Timestamp	Time	
	ProSe-Role-Of-UE	Enumerated	
	ProSe-Source-IP-Address	Address	
	ProSe-UE-ID  Provimity Alort Indication	OctetString Enumerated	
	Proximity-Alert-Indication	Enumerated	
	Proximity-Alert-Timestamp	Time	
	Proximity-Cancellation-Timestamp	Time	
	ProSe-Function-PLMN-Identifier	UTF8String	
	Application-Specific-Data	OctetString	
	Coverage-Info	Grouped	
	Location-Info	Grouped	
	ProSe-Direct-Communication-Reception-Data-Container	Grouped	
	Radio-Frequency	OctetString	
3463	Radio-Parameter-Set-Info	Grouped	
3464	Radio-Parameter-Set-Values	OctetString	
3465	Radio-Resources-Indicator	Integer32	
	Time-First-Reception	Time	
	Time-First-Transmission	Time	
	Transmitter-Info	Grouped	
	The AVP codes from 3469 to 3499 are reserved for TS 32.299.	1 2:	
	BMSC-Address	Address	
	BMSC-Port	Unsigned32	
	MBMS-Bearer-Event	Unsigned32	
	MBMS-Bearer-Event-Notification	Grouped	29.468 [31]
	MBMS-Bearer-Request	Grouped	
	MBMS-Bearer-Response	Grouped	
3303	N     N    -	Groupeu	

3506 MBMS-Bearer-Result	Unsigned32	
3507 MBMS-Start-Time	Time	
3508 Radio-Frequency	Unsigned32	
3509 TMGI-Allocation-Request	Grouped	
3510 TMGI-Allocation-Response	Grouped	
3511 TMGI-Allocation-Result	Unsigned32	
3512 TMGI-Deallocation-Request	Grouped	
3513 TMGI-Deallocation-Response	Grouped	
3514 TMGI-Deallocation-Result	Unsigned32	
3515 TMGI-Expiry	Grouped	
3516 TMGI-Expiry	Unsigned32	
3517 MB2U-Security	Unsigned32	
Note: The AVP codes from 3518 to 3599 are reserved for TS 29.468.	Onsignedsz	
3601 Origin-App-Layer-User-Id	UTF8String	
3602 Target-App-Layer-User-Id	UTF8String	
3603 ProSe-Function-ID	OctetString	29.343 [32]
3604 ProSe-Request-Type	Unsigned32	
Note: The AVP codes from 3605 to 3699 are reserved for TS 29.343.	Orisignedaz	
3701 ProSe-Subscription-Data	Grouped	
3702 ProSe-Permission	Unsigned32	
3703 ProSe-Allowed-PLMN	Grouped	
3704 ProSe-Direct-Allowed	Unsigned32	
3705 UPR-Flags	Unsigned32	29.344 [33]
3706 PNR-Flags	Unsigned32	
3700 ProSe-Initial-Location-Information	Grouped	
3708 Authorized-Discovery-Range	Unsigned32	
Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344.	Orisigned32	
3800 Reserved		
3801 App-Layer-User-Id	UTF8String	
3802 Assistance-info	Grouped	
3803 Assistance-Info-Validity-Timer	Unsigned32	
	Unsigned32	
3804 Discovery-Type 3805 Filter-Id	OctetString	
3806 MAC-Address	UTF8String	
3807 Match-Report	Grouped	
3808 Operating-Channel	Unsigned32	
3809 P2P-Features	Unsigned32	
3810 ProSe-App-Code	UTF8String	
3811 ProSe-App-Lode	UTF8String	
3812 ProSe-App-Mask	UTF8String	
3813 ProSe-Discovery-Filter	Grouped	
3814 PRR-Flags	Unsigned32	
3815 ProSe-Validity-Timer	Unsigned32	
3816 Requesting-EPUID	UTF8String	
3817 Targeted-EPUID	UTF8String	
3818 Time-Window	Unsigned32	
3819 WiFi-P2P-Assistance-Info	Grouped	29.345 [34]
3820 WLAN-Assistance-Info	Grouped	
3821 WLAN-Link-Layer-Id	OctetString	
3822 WLAN-Link-Layer-Id-List	Grouped	
3823 Location-Update-Trigger	Grouped	
3824 Location-Update-Event-Type	Unsigned32	
3825 Change-Of-Area-Type	Grouped	
3826 Location-Update-Event-Trigger	Unsigned32	
3827 Report-Cardinality	Enumerated	
3828 Minimum-Interval-Time	Unsigned32	
3829 Periodic-Location-Type	Grouped	
3830 Location-Report-Interval-Time	Unsigned32	
3831 Total-Number-Of-Reports	Unsigned32	
3832 Validity-Time-Announce		
	Unsigned32	
3833 Validity-Time-Monitor	Unsigned32	
3834 Validity-Time-Communication	Unsigned32	
3835 ProSe-App-Code-Info	Grouped	
3836 MIC 3837 UTC-based-Counter	OctetString Unsigned32	
	i unsidhedaz	

3838 ProSe-Match-Refresh-Timer		Unsigned32
3839 Reserved		-
3840 Reserved		-
3841 Reserved		-
3842 Reserved		-
3843 Reserved		-
3844 Reserved		-
3845 Reserved		<del>-</del>
3846 Reserved		-
3847 Reserved		-
3848 Reserved		-
3849 Reserved		-
3850 Reserved		-
3851 Reserved		-
3852 PMR-Flags		Unsigned32
3853 ProSe-Application-Metadata		UTF8String
3854 Discovery-Auth-Request		Grouped
3855 Discovery-Auth-Response		Grouped
3856 Match-Request		Grouped
3857 Match-Report-Info		Grouped
Note: The AVP codes from 3858 to 38	399 are reserved for TS 29.345.	

## 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	1
2003	DIAMETER_UNREGISTERED_SERVICE	29.229 [2]
2004	DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED	1
2005	Deprecated value	
Note: The Experim	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.	
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]
Note: The 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 text		Specified in the TS	;
	Result Code				
_	4100	DIAMETER_USER_DATA_NOT_AVAILABLE		29.329 [4]	
	4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS			
_	Note: The Experim	ental Result Codes from 4102 to 4120 are reserved for the TS 29.32	29.		
	4121	DIAMETER_ERROR_OUT_OF_RESOURCES		29.061 [13]	
	Note: The Experim	ental Result Codes from 4122 to 4140 are reserved for the TS 29.06	31.		
	4141	DIAMETER_PCC_BEARER_EVENT			
	4142	DIAMETER_BEARER_EVENT		29.212 [19]	
	4143	DIAMETER_AN_GW_FAILED		29.212 [19]	
	4144	DIAMETER_PENDING_TRANSACTION			
	Note: The Experim	ental Result Codes from 4145 to 4160 are reserved for the TS 29.21	12		
				32.299 [5]	
		ental Result Codes from 4161 to 4180 are reserved for the TS 32.29	99.		
4		ER_AUTHENTICATION_DATA_UNAVAILABLE	-	29.272 [21]	
		ER_ERROR_CAMEL_SUBSCRIPTION_PRESENT		.9.272 [21]	
Note: Th	e Experimental Res	ult Codes from 4182 to 4200 are reserved for the TS 29.272.			
		ER_ERROR_ABSENT_USER	2	29.173 [25]	
Note: Th	e Experimental Res	ult Codes from 4202 to 4220 are reserved for the TS 29.173.			
		ER_ERROR_UNREACHABLE_USER			
4.	222 DIAME	ER_ERROR_SUSPENDED_USER			
		ER_ERROR_DETACHED_USER	-	29.172 [24]	
4.	224 DIAME	ER_ERROR_POSITIONING_DENIED	2	29.172 [24]	
4	_	ER_ERROR_POSITIONING_FAILED			
		ER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT			
Note: Th		ult Codes from 4227 to 4240 are reserved for the TS 29.172.			
		ER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	2	29.219 [26]	
Note: Th	e Experimental Res	ult Codes from 4242 to 4260 are reserved for the TS 29.219.			
			2	29.214 [18]	
Note: Th	e Experimental Res	ult Codes from 4261 to 4280 are reserved for the TS 29.214.			

#### 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

Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	
	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
	DIAMETER_ERROR_TOO_MUCH_DATA	
	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
	unassigned	
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED	
	DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUPP ORTED	
Note: The Expe	rimental Result Codes from 5013 to 5020 are reserved for the TS	S 29.229.
		32.299 [5]
	rimental Result Codes from 5021 to 5040 are reserved for the TS	32.299.
	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC RIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
	DIAMETER_ERROR_UNSUITABLE_NETWORK	
Note: The Expe	rimental Result Codes from 5046 to 5060 are reserved for the TS	S 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	[0] 000 00
5064	DUPLICATED_AF_SESSION	29.209 [8],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.211 [17] , 29.214 [18]
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	29.214 [10]
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
	TEMPORARY_NETWORK_FAILURE	
Note: The Expe	rimental Result Codes from 5069 to 5080 are reserved for TS 29	.209, TS 29.211
	TS 29.214.	
	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	29.329 [4]
	DIAMETER_ERROR_TRANSPARENT_DATA	29.529 [4]
	OUT_OF_SYNC	
	DIAMETER_ERROR_SUBS_DATA_ABSENT	
	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
Note: The Expe	rimental Result Codes from 5109 to 5119 are reserved for the TS	

DIAMETER\_ERROR\_START\_INDICATION
DIAMETER\_ERROR\_STOP\_INDICATION
DIAMETER\_ERROR\_UNKNOWN\_MBMS\_BEARER\_SERVIC 5120 5121 5122 29.061 [13] DIAMETER\_ERROR\_SERVICE\_AREA

Note: The Experimental Result Codes from 5124 to 5139 are reserved for the TS 29.061.						
5140	DIAMETER_ERROR_INITIAL_PARAMETERS					
5141	DIAMETER_ERROR_TRIGGER_EVENT					
5142	DIAMETER_PCC_RULE_EVENT					
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED					
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D	29.212 [19]				
5145	DIAMETER_QOS_RULE_EVENT					
5146	reserved					
5147	DIAMETER_ERROR_CONFLICTING_REQUEST					
5148	DIAMETER_ADC_RULE_EVENT					
Note: The Expe	erimental Result Codes from 5149 to 5159 are reserved for the TS	\$ 29.212.				
5401	DIAMETER_ERROR_IMPI_UNKNOWN					
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7				
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID					

5123

Note: The Ex	Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 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							
Note: The Experimental Result Codes from 5424 to 5449 are reserved for the TS 29.272.								
5450								
	29.273 [20]							
5451	5451 DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION							
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED							
Note: The Ex	Note: The Experimental Result Codes from 5453 to 5469 are reserved for the TS 29.273.							
	EATS DIAMETED EDDOD SUBSESSION							

tal Result Codes	from 5453 to 5469 are reserved for the TS 29.273.	
5470	DIAMETER_ERROR _SUBSESSION	
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME	29.215 [22]
	NT	
Note: The Expe	erimental Result Codes from 5472 to 5489 are reserved for the	TS 29.215.
5490	DIAMETER ERROR UNAUTHORIZED REQUESTING NET	- 1
	WORK	29.173 [25]
Note: The Expe	erimental Result Codes from 5491 to 5509 are reserved for the	TS 29.173.
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENT	
33.3	TY	29.336 [28]
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
	erimental Result Codes from 5512 to 5529 are reserved for the	TS 29 336
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	10 20.000.
5531	DIAMETER_ERROR_SC_CONGESTION	
5532	DIAMETER_ERROR_SM_PROTOCOL	
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	29.337 [29]
	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5534		
5535	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDIN	
	erimental Result Codes from 5536 to 5549 are reserved for the	15 29.337.
5550	DIAMETER_ERROR_ABSENT_USER	
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5553	DIAMETER_ERROR_ILLEGAL_USER	
5554	DIAMETER_ERROR_ILLEGAL_EQUIPMENT	29.338 [30]
5555	DIAMETER_ERROR_SM_DELIVERY_FAILURE	
5556	DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED	
5557	DIAMETER_ERROR_SERVICE_BARRED	
5558	DIAMETER_ERROR_MWD_LIST_FULL	
Note: The Expe	erimental Result Codes from 5559 to 5569 are reserved for the	TS 29.338.
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
Note: The	Experimental Result Codes from 5571 to 5589 are reserved fo	r the TS 29.219.
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	
5592	DIAMETER ERROR PFID UNKNOWN	
5593	DIAMETER_ERROR_APP_REGISTER_REJECT	29.343 [32]
5594	DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOW	
0001	D	_
5595	DIAMETER ERROR MAP_REQUEST_REJECT	
	erimental Result Codes from 5596 to 5609 are reserved for the	TS 29 343
5610	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION	
5611	DIAMETER_ERROR_ PROSE_NOT_ALLOWED	29.344 [33]
5612	DIAMETER_ERROR_ UE_LOCATION_UNKNOWN	29.044 [00]
	erimental Result Codes from 5613 to 5629 are reserved for the	TC 20 244
	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FIL	
5630	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FIL   ER	1
5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_	P
	LMN	
5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE	
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	
5634	DIAMETER_ERROR_PROXIMITY_REJECTED	29.345 [34]
5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	
5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS	_
	PLMN	
5637	DIAMETER_ERROR_PROXIMITY_CANCELLED	
5638	Reserved	
5639	Reserved	

5640	Reserved	
5641	DIAMETER_ERROR_INVALID_DISCOVERY_TYPE	
Note: The Expe	rimental Result Codes from 5642 to 5649 are reserved for the TS	S 29.345.

## 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

Dot-	TCO "	TCC Date	CE	D	Change history	01-1	Marri
Date	TSG #	TSG Doc.	CR	Kev	Subject/Comment	Old	New
2004-06		NP-040292	004		Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09		NP-040401	001		Correction of Charging application reference	6.0.0	6.1.0
2004-09		NP-040401	002		Correction of the Application-Id code	6.0.0	6.1.0
2004-09		NP-040401	003	_	Removal of User Data Request Type AVP	6.0.0	6.1.0
2004-09		NP-040412	004	1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12		NP-040579	006		Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12		NP-040580	007	1	Reservation of command code 310	6.1.0	6.2.0
2004-12		NP-040579	009	1	Addition of Gmb interface	6.1.0	6.2.0
2004-12		NP-040600	010	2	Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces	6.1.0	6.2.0
2004-12		NP-040579	011		Gq interface allocations	6.1.0	6.2.0
2004-12		NP-040579	012		Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047	040	1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039	043		Allocations for Gx interface		
		NP-050039	045		Allocations for Gmb interface		
		NP-050039	046		Allocations for MMS, MM10 Interface		
2005-06	CT#28	CP-050088	0050		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	0052	1	Private identities on the Cx	6.4.0	6.5.0
		CP-050310	0053		Addition of Pr reference point to TS 29.230		
		CP-050310	0054		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		CP-050624	0058		Addition of GBA-Type AVP	7.0.0	7.1.0
	000	CP-050612	0063		Additional Gmb AVP Allocation	1	
		CP-050612	0065		Reservation of AVP codes for 32.299	-	
		CP-050625	0066		Management of Sh subscriptions		
2006-03	CT#31	CP-060073	0069		Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
-000 03	01#31	CP-060084	0071		User-Data in the response to Sh-Subs-Notif	7.1.0	7.2.0
		CP-060084	0071	1	New error indications for the Sh-Subs-Notif procedure	_	
2006-06	CT#32	CP-060302	0072	<u> </u>	S-CSCF reselection removal	7.2.0	7.3.0
2006-09		CP-060417	0073	2	New AVP Code	7.3.0	7.4.0
2006-09	C1#33	CP-060417	0080	3	Errors to be sent in response to Sh-Notif	7.3.0	7.4.0
		CP-060417	0081		Definition of specific Diameter codes for DSAI		
2006 42	CT#34			4		7.4.0	7.5.0
2006-12	C1#34	CP-060566	0085	1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
		CP-060562	0086		Addition of Diameter Error Code for Emergency Purposes	_	
		CP-060555	0087		Allocation of new AVP codes for Gmb		
		CP-060555	0089		AVP code allocations for Rf and Ro interfaces	_	
	0=::0=	CP-060566	0091		Allocation of Success Result Code Range for Gi Interface		
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		
		CP-070020	0093	ļ	Allocation of Experimental-Result-Code AVP for Gi Interface		
2007-06	CT#36	CP-070318	0096		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		Correction of Diameter AVP code allocation		
2007-09	CT#37	CP-070527	0102		Application ID for Gx protocol	7.7.0	7.8.0
2007-12		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
			0103		AVP code reservation for 32.299 in Rel-8	1	
	CT#39	CP-080015	0109		Correction of reference to TS 29.140	8.0.0	8.1.0
2008-03		CP-080019	0111		AVP code reservation for TS 32.299 in Rel-8	1	
2008-03	1	CP-080019	0107		Wildcarded Public User Identities	1	
2008-03			0.07	<u> </u>		1	
2008-03		CP-080191	0112	1	Correction on AVP code allocation reservation for TS 32.299 in		
2008-03		CP-080191			Rel-7		
	CT#40	CP-080191 CP-080204	0113	1	Rel-7 Correction on AVP code allocation reservation for TS 32.299	010	9.00
2008-06		CP-080191 CP-080204 CP-080267	0113 0117	1	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
2008-03 2008-06 2008-09 2008-09	CT#41	CP-080191 CP-080204	0113	1	Rel-7 Correction on AVP code allocation reservation for TS 32.299	8.1.0 8.2.0	8.2.0 8.3.0

2008-09	CT#41	CP-080463	0123		Cx Impacts of IMS Restoration Procedures (New AVP Codes		
2009 00	CT#41	CD 090463	0124		Assignment)	0 2 0	0 2 0
2008-09 2008-12	CT#41 CT#42	CP-080463 CP-080691	0124 0127	2	New AVP Code Assignment for Forking Service Restoration  Diameter Protocol Codes Assignments for S6a/S6d/S13	8.2.0 8.3.0	8.3.0 8.4.0
2008-12	CT#42	CP-080691	-	1	Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044	_	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		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		4	Update of the AVP Codes	8.5.0	8.6.0
		CP-090299	0143		AVP code reservation for TS 32.299		
		CP-090299	0145		Diameter Command Codes for S6a/S6d/S13/S13'		
		ļ	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		
2009-09	CT#45	CP-090557	0148	<u> </u>	AVP code range for charging	8.7.0	9.0.0
2009-12	CT#46	CP-090800	0154	1	ICS-Flag	9.0.0	9.1.0
		CP-091032	0156		From GMLC-Address to GMLC-Number		
			0160	_	Session-Priority AVP		
			0163	2	Introduction of SLh application related AVPs and Experimental		
			0166		Result codes Missing AVP error codes		
		CP-090797	0167	1	Introduction of SLg application related AVPs and Application		
		CF-090797	0107	'	Identifier		
2010-03	CT#47	CP-100031	0158	1	Wildcarded Public Identity	9.1.0	9.2.0
2010 00	011111	CP-100034	0168		Correction on AVP code allocation reservation for TS 32.299 in	0.1.0	0.2.0
				-	Rel-9		
		CP-100046	0169	1	AVP code allocation for 29.172		
		CP-100036	0172		GPL_U support in TS 29.109		
		CP-100046	0173		Error codes in 29.172 for SLg		
		CP-100048	0174	1	AVPs in 29.272 for TADS support		
		CP-100040	0175		Error codes in 29.272 for Unknown MME		
		CP-100236	0176	4	EPS Subcsriber State and Location Information Request		
		CP-100033	0180		One time notification AVP allocation		
		CP-100046	0181		Addition of the LCS-QoS-Class attribute value		
0040.00	OT#40	CP-100175	0182	4	Introduction of the LCS-Capabilities-Sets AVP in SLh interface	0.00	0.0.0
2010-06	C1#48	CP-100263	0188	1	AVP Codes for PCC  EPS state and location retrieval	9.2.0	9.3.0
		CP-100287	0183 0186		SGmb Application ID		
		CP-100287	0190	1	New APVs in S6a protocol		
2010-09	CT#49	CP-100463	0197	1	Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.0
_5.5 55	0 1 // 30	3. 100100	3.57	1	interfaces	0.0.0	55
		CP-100464	0196		AVP Codes Allocation for PCC	1	
2010-09	CT#49	CP-100465	0193	1	SIPTO Permission Indicator	9.4.0	10.0.0
		CP-100466	0198		Location data including only serving node address	_	
		CP-100466	0199	1	AVP for Update-Eff feature		
2010-12	CT#50	CP-100699	0205	1	Enhanced SRVCC Subscriber Data	10.0.0	10.1.0
				-		10.0.0	
		CP-100687	0201	1	Allocate codes for AVPs on eMPS	10.0.0	
		CP-100687 CP-100683	0201 0200		Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA	- 10.0.0	
		CP-100687 CP-100683 CP-100688	0201 0200 0206		Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription	10.0.0	
2044.02		CP-100687 CP-100683 CP-100688 CP-100846	0201 0200 0206 0203		Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic		10.2.0
2011-03	CT#51	CP-100687 CP-100683 CP-100688 CP-100846 CP-110051	0201 0200 0206 0203 0212		Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction	10.1.0	10.2.0
2011-03		CP-100687 CP-100683 CP-100688 CP-100846	0201 0200 0206 0203		Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application		10.2.0
2011-03		CP-100687 CP-100683 CP-100688 CP-100846 CP-110051 CP-110054	0201 0200 0206 0203 0212 0215	1	Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs		10.2.0
2011-03		CP-100687 CP-100683 CP-100688 CP-100846 CP-110051 CP-110054 CP-110087	0201 0200 0206 0203 0212 0215	2	Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT)		10.2.0
2011-03		CP-100687 CP-100683 CP-100688 CP-100846 CP-110051 CP-110054	0201 0200 0206 0203 0212 0215	2	Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration		10.2.0
	CT#51	CP-100687 CP-100683 CP-100688 CP-100846 CP-110051 CP-110054 CP-110087 CP-110088	0201 0200 0206 0203 0212 0215 0207 0209	2	Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup	10.1.0	
	CT#51	CP-100687 CP-100683 CP-100688 CP-100846 CP-110051 CP-110054 CP-110087 CP-110088 CP-110349 CP-110347 CP-110359	0201 0200 0206 0203 0212 0215 0207 0209 0219 0231 0226	2 1 2	Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces	10.1.0	
	CT#51	CP-100687 CP-100683 CP-100688 CP-100846 CP-110054 CP-110087 CP-110088 CP-110349 CP-110347 CP-110359 CP-110380	0201 0200 0206 0203 0212 0215 0207 0209 0219 0231 0226 0216	2 1 2	Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent	10.1.0	
	CT#51	CP-100687 CP-100683 CP-100688 CP-100846 CP-110054 CP-110087 CP-110088 CP-110349 CP-110347 CP-110359 CP-110380 CP-110370	0201 0200 0206 0203 0212 0215 0207 0209 0219 0231 0226 0216 0223	2 1 2 1	Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging	10.1.0	
2011-06	CT#51	CP-100687 CP-100683 CP-100688 CP-100846 CP-110054 CP-110087 CP-110088 CP-110349 CP-110347 CP-110359 CP-110380 CP-110370 CP-110375	0201 0200 0206 0203 0212 0215 0207 0209 0219 0231 0226 0216 0223	2 1 2 1	Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging PUR-Flags AVP	10.1.0	10.3.0
	CT#51	CP-100687 CP-100683 CP-100688 CP-100846 CP-110054 CP-110087 CP-110088 CP-110349 CP-110347 CP-110359 CP-110380 CP-110370	0201 0200 0206 0203 0212 0215 0207 0209 0219 0231 0226 0216 0223	1 1 2 1 2 1 1	Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging	10.1.0	

		CP-110554	0244	1	AVP code alignment with 29.214	T	
		CP-110554	0244	1	Experimental Result Code Alignment with 29.061	1	
		CP-110555	0252		Failure code and AVP code alignment with 29.212	1	
		CP-110722	0257	2	Priviledged sender	-	
2011-09	CT#53	CP-110584	0234		Add vSRVCC updates to the Diameter AVP code table	10.4.0	11.0.0
		CP-110579	0240		AVP code alignment with 32.299		
		CP-110555	0253		AVP code reservation for 29.212	1	İ
2011-12	CT#54	CP-110812	0258	1	SWx Restoration AVPs	11.0.0	11.1.0
		CP-110812	0259		Sy and Sd Application IDs		
		CP-110775	0262		New AVP codes for MBMS IP unicast encapsulation	]	
		CP-110775	0265		New AVP codes for MBMS IP multicast encapsulation		
		CP-110786	0271	1	MME-Realm AVP code allocation		
		CP-110811	0277		Equivalent PLMN CSG Subscription Request		
		CP-110781	0281		Restoration of Wildcarded-IMPU AVP		
2012-03	CT#55	CP-120025	0286	1	Codes Allocation for AVPs on Initial Attach	11.1.0	11.2.0
		CP-120038	0288		New AVP codes for Absolute Time of MBMS Data Transfer over		
		05 (0000		ļ.,	SGmb		
	0===0	CP-120038		1	Allocating Diameter AVP codes for TS 29.219 and TS 29.212		
2012-06	CT#56	CP-120240	0287	_	Codes Allocation for AVPs on NPLI	11.2.0	11.3.0
		CP-120238	0294	1	Adding new Diameter AVPs to Diameter table to support Trusted		
		OD 400005	0000	-	WLAN Access feature	-	
		CP-120225	0296		Trust Relationship Indication	4	
		CP-120251	0297		Corrections to reference titles	4	
		CP-120251 CP-120247	0298	1	Diameter Code Allocation for TS 29.219	4	
			0300 0304	-	Network Name AVP codes  Duplicated AVP names	-	
2012-09	CT#57	CP-120219 CP-120481	0304		PS additional number allocation	11.3.0	11.4.0
2012-09	01#3/	CP-120481 CP-120473	0289	4	SMS in MME/SGSN	11.3.0	11.4.0
		CP-120473 CP-120461	0293		AAA Failure Recovery AVP codes	1	
		CP-120461	0305	_	Transport Access Type AVP for BBAI	+	
		CP-120474 CP-120480	0305	1	Local Time Zone	=	
		CP-120472	0307	<u> </u>	Allocating Application Identifier and command code for Tsp	-	
		C1 -120472	0300	-	interface		
		CP-120472	0309	-	Application Identifier, Command Codes and AVP range for S6m	1	
		0202	0000		interface		
		CP-120667	0312	1	GMLC-Name	1	İ
			0313		Reference list correction to align with the corrected TS 29.212	1	
					title		
2012-12	CT#58	CP-120731	0315	2	T4 device triggering via IMS	11.4.0	11.5.0
		CP-120731	0318		Codes and Identifier Allocation for T4 Specification	1	
		CP-120731	0324		AVP Code Allocation for 29.336	1	
		CP-120731	0329		Diameter AVP code value allocation in TS 29.368	1	
		CP-120732	0319		Application Identifier, Command Codes and AVP codes for SGd,	1	İ
					S6c		
		CP-120716	0324	1	AVP name modification in TS 32.299	_	
		CP-120742	0325	-	UE Time Zone AVP	_	
		CP-120741	0328	1	Use of Flag instead of Enumerated AVPs		
		CP-120741	332	-	Llos of Flor instead of Fnumerated AV/Da		
					Use of Flag instead of Enumerated AVPs		
		CP-120743	330	-	PSI direct routing with restoration procedures		
		CP-120743	330 333	-	PSI direct routing with restoration procedures EPS LocationInformation Support	- - -	
2013-03	CT#59	CP-120743 CP-130026	330 333 0334	- - 1	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219	11.5.0	11.6.0
		CP-120743 CP-130026 CP-130026	330 333 0334 0336	-	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters		
	CT#59	CP-120743 CP-130026 CP-130026 CP-130156	330 333 0334 0336 0337	- 1 - 1	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface	11.5.0	İ
2013-03	CT#59	CP-120743 CP-130026 CP-130026 CP-130156 CP-130030	330 333 0334 0336 0337 0341	- 1 -	PSI direct routing with restoration procedures  EPS LocationInformation Support  Diameter error code for TS 29.219  MDT parameters  New AVPs for Lgd interface  Validity Time of Short Message	11.6.0	12.0.0
2013-03		CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130288	330 333 0334 0336 0337 0341 0362	- 1 -	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP		12.0.0
2013-03	CT#59	CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298	330 333 0334 0336 0337 0341 0362 0360	- 1 -	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292	330 333 0334 0336 0337 0341 0362 0360 0358	- 1 - 1 -	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279	330 333 0334 0336 0337 0341 0362 0360 0358 0354	- 1 - 1 -	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279 CP-130380	330 333 0334 0336 0337 0341 0362 0360 0358 0354 0363	- 1 - 1 - - 1	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279	330 333 0334 0336 0337 0341 0362 0360 0358 0354	- 1 - 1 - - 1	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291	330 333 0334 0336 0337 0341 0362 0360 0358 0354 0363	- 1 - 1 - - 1 - 2	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291 CP-130297	330 333 0334 0336 0337 0341 0362 0360 0358 0354 0363	- 1 - 1 - - 1 - 2	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130292 CP-130292 CP-130380 CP-130291 CP-130291	330 333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348	- 1 - 1 - - 1 - 2	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291 CP-130297	330 333 0334 0336 0337 0341 0362 0360 0358 0354 0363	- 1 - 1 - - 1 - 2	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-130026 CP-130026 CP-130156 CP-130288 CP-130298 CP-130292 CP-130279 CP-130291 CP-130291 CP-130297 CP-130297 CP-130297 CP-130297 CP-130297	330 333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348	- 1 - 1 - - 1 - 2	PSI direct routing with restoration procedures  EPS LocationInformation Support  Diameter error code for TS 29.219  MDT parameters  New AVPs for Lgd interface  Validity Time of Short Message  Add new DER-S6b-flag AVP  Failure Result Codes Allocation for TS 29.219  Diameter AVP codes for new TS 32.299 AVPs  Definition of SS Status for Call Barring  New SGs-MME-Identity AVP  New AVPs for deferred MT-LR and periodic MO-LR TTTP  procedures over Lgd interface  Application Port Identifier  MTRR on Sh  Restoration Priority during SGW and PGW restoration procedures	11.6.0	12.0.0
2013-03 2013-06	CT#59 CT#60	CP-120743 CP-130026 CP-130026 CP-130156 CP-130288 CP-130298 CP-130292 CP-130279 CP-130291 CP-130291 CP-130297 CP-130297 CP-130297 CP-130374 CP-130295 CP-130378	330 333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344	- 1 - 1 - - 1 - 2 1 1 -	PSI direct routing with restoration procedures  EPS LocationInformation Support  Diameter error code for TS 29.219  MDT parameters  New AVPs for Lgd interface  Validity Time of Short Message  Add new DER-S6b-flag AVP  Failure Result Codes Allocation for TS 29.219  Diameter AVP codes for new TS 32.299 AVPs  Definition of SS Status for Call Barring  New SGs-MME-Identity AVP  New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface  Application Port Identifier  MTRR on Sh  Restoration Priority during SGW and PGW restoration procedures  SIPTO permission for Local Network enhancements	11.6.0	12.0.0
2013-03 2013-06	CT#59	CP-120743 CP-130026 CP-130026 CP-130156 CP-130288 CP-130298 CP-130292 CP-130279 CP-130291 CP-130291 CP-130297 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454	330 333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344	- 1 - 1 - - 1 - 2 1 1 -	PSI direct routing with restoration procedures  EPS LocationInformation Support  Diameter error code for TS 29.219  MDT parameters  New AVPs for Lgd interface  Validity Time of Short Message  Add new DER-S6b-flag AVP  Failure Result Codes Allocation for TS 29.219  Diameter AVP codes for new TS 32.299 AVPs  Definition of SS Status for Call Barring  New SGs-MME-Identity AVP  New AVPs for deferred MT-LR and periodic MO-LR TTTP  procedures over Lgd interface  Application Port Identifier  MTRR on Sh  Restoration Priority during SGW and PGW restoration  procedures  SIPTO permission for Local Network enhancements  New MBMS flag for eMBMS restoration	11.6.0	12.0.0
2013-03 2013-06	CT#59 CT#60	CP-120743 CP-130026 CP-130026 CP-130156 CP-130288 CP-130298 CP-130292 CP-130279 CP-130291 CP-130291 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130461	330 333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0364	- 1 - 1 - - 1 - 2 1 1 - - 1 - - 1	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12	11.6.0	12.0.0
2013-03 2013-06	CT#59 CT#60	CP-120743 CP-130026 CP-130026 CP-130156 CP-130288 CP-130298 CP-130292 CP-130279 CP-130291 CP-130291 CP-130297 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454	330 333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344	- 1 - 1 - - 1 - 2 1 1 - - 1 - - 1	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and	11.6.0	12.0.0
2013-03 2013-03 2013-06	CT#59 CT#60	CP-120743 CP-130026 CP-130026 CP-130156 CP-130288 CP-130298 CP-130292 CP-130279 CP-130291 CP-130291 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130461	330 333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0364	- 1 - 1 - - 1 - 2 1 1 - - 1 - - 1	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215	11.6.0	12.0.0
2013-03 2013-06	CT#59 CT#60	CP-120743 CP-130026 CP-130026 CP-130156 CP-130288 CP-130298 CP-130292 CP-130279 CP-130291 CP-130291 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130461	330 333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0364	- 1 - 1 - - 1 - 2 1 1 - - 1 - - 1	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment-	11.6.0	12.0.0
2013-03 2013-06 2013-09	CT#59 CT#60	CP-120743 CP-130026 CP-130026 CP-130156 CP-130288 CP-130298 CP-130297 CP-130291 CP-130291 CP-130297 CP-130374 CP-130295 CP-130378 CP-130460 CP-130460	330 333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0366 0368	- 1 - 1 - - 1 - 2 1 1 - - 1 - - 1	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment-Request/Answer corrected	11.6.0 12.0.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-03	CT#59 CT#60	CP-120743 CP-130026 CP-130026 CP-130156 CP-130288 CP-130298 CP-130292 CP-130279 CP-130291 CP-130291 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130461	330 333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0364	- 1 - 1 - - 1 - 2 1 1 - - 1 - - 1	PSI direct routing with restoration procedures EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment-	11.6.0	12.0.0

	ĺ	CP-130800	0371	1_	New AVPs for SMS for IMS UE without MSISDN in TS 29.338	1	
		CP-130600	0376		Allocation of Diameter codes for 32.299	-	
		CP-130605	0378		Allocation of Diameter codes for 29.212		
		CP-130639	0380	_	SGSN CAMEL Subscription Indication		
2014-03	CT#63	CP-140180	0381		Protocol enhancements for the support of device replace procedure	12.3.0	12.4.0
		CP-140035	0384	-	New AVP for the support of combined MME/SGSN	†	1
		CP-140023	0383		Definition of WLAN-related AVPs	1	
2014-06 CT#64	CT#64	CP-140211	0385		Protocol enhancements to indicate support of device recall and replace by SMS-SC	12.4.0	12.5.0
		CP-140251	0402	1	AVP allocation for Error handling, MTC error diagnostic	1	
		CP-140257	0391		SS-Status AVP Definition	1	
		CP-140252	0392		Definition of AVPs for Network Location in TWLAN	1	
		CP-140236	0399		TWAN-BSSID AVP re-naming	Ĭ	
		CP-140247	0397		New AVPs for Trusted WLAN access	Ĭ	
	İ	CP-140231	0390	1	Adding Codes for 29.214	1	
2014-09	CT#65	CP-140515	0403		T-GRUU restoration	12.5.0	12.6.0
	İ	CP-140517	0404		MB2-C codes	1	
		CP-140505	0405	1	New AVPs for Trusted WLAN access	1	
		CP-140506	0406		P-CSCF Restoration indication	1	
		CP-140516	0407		Closing TS 29.234 and reused AVP in TS 29.273	1	
		CP-140513	0408	-	Identification of the HSS	1	
					Editorial: WLAN-offloadability AVP codes added as in CR C4-141648.		
2014-12	CT#66	CP-140785	0409	1	New AVP for MBMS restoration	12.6.0	12.7.0
			0430		New Diagnostic-Info AVP for MBMS restoration	Ī	
			0410	1	WLCP key for WLCP signalling protection	1	
			0411	-	Reset-ID	1	
			0416	1	Code definitions for 32.299	1	
			0428	-	Removal of I-WLAN AVPs	1	
			0429	1	Reference correction		
			0433	-	Code allocation for 29.212		
			0418		MDT PLMN List	]	
			0422	_	Codes Allocation for PC2 Protocol	<u> </u>	
			0423		Codes Allocation for PC4a Protoco	<u> </u>	
			0431	3	Allocation of values for Application ID, Command codes, AVP		
					codes and Experimental-Result codes used in the TS 29.345	_	
			0434	1	Command Code and Error Code for ProSe Initial Location Information Retrieval		
			0425		Corrections of the type of some AVPs	1	
			0426		OFR-Flags AVP code	<u> </u>	
			0427		P-CSCF Restoration mechanism new error		
2015-03	CT#67	CP-150015	0447		Renaming of Location-Type AVP	12.7.0	12.8.0
			0437		Location reporting in emergency 1xSRVCC	1	
			0435		AVP codes for GCSE MB2-C	4	
	·	ļ	0442		New AVPs and range of transient failure result codes in TS 29.214		
		ļ	0438		Allocation of code for Authorized-Discovery-Range AVP (TS 29.344)		
			0440		Location Update Trigger	1	
			0441		AVP codes allocation for Validity related AVPs for TS 29.345	1	
2015 5 -	0=	05 (505	0443		Allocation of codes for the Integrity Checks. Aspect AVPs	40.0	46.5.
2015-06	CT#68	CP-150257	0448		AVP code allocation for Match Refresh Timer AVP in TS 29.345	12.8.0	12.9.0
		CP-150248	0453		IP-SM-GW-Realm	1	
		CP-150245	0456	_	Wrong CR implementation of CR 0416r1	4	
2045.22	OT#00	CP-150249	0458	1	AVP code allocation for 32.299	40.00	40.40.4
2015-09	CT#69	CP-150431	0469	-	AVP codes for TS 29.212	12.9.0	12.10.0
2015-12	CT#70	CP-150754	0480		Allowed WAF and/or WWSF Identities	12.10.0	12.11.0
		CP-150755	0485		Metadata in Match-Report	1	
2016.02	CT#74	CP-150755	0487		New Group AVP for ProSe direct discovery procedures	10.44.0	10.10.0
2016-03	CT#71	CP-160017	0516		AVP codes for 29.212	12.11.0	12.12.0
2017-12	JC1#/8	CP-173011	0622	ļ	AVP codes for TS 29.219	12.12.0	12.13.0

## History

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