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Foreword

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1 Scope

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

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

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.

Diameter protocol; Stage 3".

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document.*

[1]	3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and message contents".
[2]	3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter protocol; Protocol details".
[3]	3GPP TS 29.328: "IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents".
[4]	3GPP TS 29.329: "Sh Interface based on the Diameter protocol; Protocol details".
[5]	3GPP TS 32.299: "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: http://www.iana.org/assignments/enterprise-numbers
[12]	IANA's AAA parameters register: ftp://ftp.iana.org/assignments/aaa-parameters/
[13]	3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".
[14]	3GPP TS 32.296: "Telecommunication management; Charging management; Online Charging System (OCS): Applications and interfaces".
[15]	3GPP TS 29.210, Release 6: "Charging rule provisioning over Gx interface".
[16]	3GPP TS 29.140, Release 6: "Multimedia Messaging Service (MMS); MM10 interface based on

[17]	3GPP TS 29.211, 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".
[35]	3GPP TS 29.217: "Policy and Charging Control over Np reference point".
[36]	3GPP TS 29.128: "Diameter based T6a/T6b interface between the MME/SGSN and the SCEF".
[37]	3GPP TS 29.153: "Service exposure functionality between SCEF and RCAF reference point".
[38]	3GPP TS 29.154: "Service capability exposure functionality over Nt Reference point".
[39]	3GPP TS 29.283: "Diameter Data Management applications".

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	29.213 [22]
16777272	3GPP S6b	29.109 [7]
16777291	3GPP SLh	29.173 [25]
16777291	3GPP SGmb	29.173 [25]
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]
16777342	3GPP Np	29.217 [35]
16777345	3GPP S6t	29.336 [28]
16777346	3GPP T6a/T6b	29.128 [36]
16777347	3GPP Ns	29.153[37]
16777348	3GPP Nt	29.154[38]
16777349	3GPP St	29.212 [19]
16777350	3GPP PC2	29.343 [32]
16777351	3GPP Diameter Data Management	29.283 [39]

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

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
8388620	Provide-Location-Request/Answer	PLR/PLA	20 472 [24]
8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]
8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]
8388635	Spending-Limit-Request/Answer	SLR/SLA	
8388636	Spending-Status-Notification- Request/Answer	SNR/SNA	29.219 [26]
8388637	TDF-Session-Request/Answer	TSR/TSA	00 040 [40]
8388731	TSSF-Notification-Request/Answer	TNR/TNA	29.212 [19]
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	29.272 [21]
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]
8388639	Device-Action-Request/Answer	DAR/DAA	29.368 [27]
8388640	Device-Notification-Request/Answer	DNR/DNA	
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]
8388718	Configuration-Information-	CIR/CIA	
0200740	Request/Answer	RIR/RIA	29.336 [28]
8388719 8388726	Reporting-Information- Request/Answer NIDD-Information-Request/Answer	NIR/NIA	-
8388643	Device-Trigger-Request/Answer	DTR/DTA	
8388644	Delivery-Report-Request/Answer	DRR/DRA	29.337 [29]
8388645	MO-Forward-Short-Message	OFR/OFA	
0000010	Request/Answer	01100170	
8388646	MT-Forward-Short-Message	TFR/TFA	
	Request/Answer		
8388647	Send-Routing-Info-for-SM-	SRR/SRA	29.338 [30]
8388648	Request/Answer Alert-Service-Centre-Request/Answer	ALR/ALA	-
8388649	Report-SM-Delivery-Status-	RDR/RDA	-
0000040	Request/Answer	ROWROR	
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	20.011[00]
8388713	ProSe-Initial-Location-Information-	PSR/PSA	
	Request/Answer		
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 8388676	ProSe-Cancellation-Request/Answer ProXimity-Action-Request/Answer	RPR/RPA PXR/PXA	
8388727	ProXimity-Action-Request/Answer	XAR/XAA	29.343 [32]
8388720	Non-Aggregated-RUCI-Report-	NRR/NRA	
8388721	Request/Answer Aggregated-RUCI-Report-	ARR/ARA	29.217 [35]
000000	Request/Answer	A 41 1 /2 4:	
8388722	Modify-Uecontext-Request/Answer	MUR/MUA	
8388724	Network-Status-Request/Answer	NSR/NSA	20 452 [27]
8388725	Network-Status-Continuous-Report- Request/Answer	NCR/NCA	29.153 [37]
8388723	Background-Data-Transfer- Request/Answer	BTR/BTA	29.154 [38]
8388728	Data-Pull-Request/Answer	DPR/DPA	
8388729	Data-Update-Request/Answer	DUR/DUA	29.283 [39]
8388730	Notification-Data-Request/Answer	NDR/NDA	
8388732	Connection-Management-Request/Answer	CMR/CMA	
8388733	MO-Data-Request/Answer	ODR/ODA	29.128 [36]
8388734	MT-Data-Request/Answer	TDR/TDA	

6 Vendor identifier

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

6.1 3GPP's vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Cod e	Attribute Name	Data Type	Specified in the 3GPP TS
	3GPP-WLAN-APN-ld	OctetString	
_	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 compatutes (See TS 29.061 [13] and TS 29.234 [6])	ibility with 3GPP RADIUS V	endor Specific
	The AVP codes from 256 to 299 are reserved for future use.		
	Authentication-Method	Enumerated	
	Authentication-Information-SIM	OctetString	
302	Authorization -Information-SIM	OctetString	1
	WLAN-User-Data	Grouped	
	Charging-Data	Grouped	
	WLAN-Access	Enumerated	_
	WLAN- 3GPP-IP-Access	Enumerated	_
	APN-Authorized APN-Id	Grouped	4
	APN-Barring-Type	Enumerated	-
	WLAN-Direct-IP-Access	Enumerated	29.234 [6]
	Session-Request-Type	Enumerated	1
312	Routing-Policy	IPFilterRule	1
313	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 1: The AVP codes from 320 to 399 are reserved for TS 29.234	Unsigned32	
	2: The 3GPP-AAA-Server-Name definition is moved to TS 29.273	starting from Rel-12	
	GBA-UserSecSettings	OctetString	
401	Transaction-Identifier	OctetString	
	NAF-Hostname	OctetString	_
	GAA-Service-Identifier Key-ExpiryTime	OctetString Time	-
	ME-Key-Material	OctetString	-
406	UICC-Key-Material	OctetString	
	GBA_U-Âwareness-Indicator BootstrapInfoCreationTime	Enumerated Time	_
409	GUSS-Timestamp	Time	-
410	GBA-Type	Enumerated	29.109 [7]
411	UE-Id	OctetString	
	UE-Id-Type UICC-App-Label	Enumerated OctetString	_
	UICC-ME	Enumerated	_
415	Requested-Key-Lifetime	Time	
	Private-Identity-Request	Enumerated	_
	GBA-Push-Info NAF-SA-Identifier	OctetString OctetString	4
	Security-Feature-Request	OctetString	1
420	Security-Feature-Response	OctetString	
	The AVP codes from 421 to 499 are reserved for TS 29.109		
	Abort-Cause	Enumerated	4
	Access-Network-Charging-Address	Address	-
	Access-Network-Charging-Identifier Access-Network-Charging-Identifier-Value	Grouped	-
	AF-Application-Identifier	OctetString OctetString	+
	AF-Charging-Identifier	OctetString	1
	Authorization-Token	OctetString	29.209 [8],
	Flow-Description	IPFilterRule	29.211 [17] ,
508	Flow-Grouping	Grouped	29.214 [18]
509	Flow-Number	Unsigned32	
	Flows	Grouped	_
	Flow-Status	Enumerated	4
	Flow-Usage	Enumerated	4
	Specific-Action May Requested Rendwidth	Enumerated	-
514	Max-Requested-Bandwidth	Unsigned32	

	M. D ID. I : W. DI		
	Max-Requested-Bandwidth-DL	Unsigned32	
	Max-Requested-Bandwidth-UL	Unsigned32	
	Media-Component-Description	Grouped	
518	Media-Component-Number	Unsigned32	
	Media-Sub-Component AVP	Grouped	
	Media-Type	Enumerated	
521	RR-Bandwidth	Unsigned32	
522	RS-Bandwidth	Unsigned32	
	SIP-Forking-Indication	Enumerated	
	Codec-Data	OctetString	
	Service-URN	OctetString	
	Acceptable-Service-Info	Grouped	
	Service-Info-Status	Enumerated	
	MPS-Identifier		
		OctetString	
	AF-Signalling-Protocol	Enumerated	
	Sponsored-Connectivity-Data	Grouped	
	Sponsor-Identity	OctetString	
	Application-Service-Provider-Identity	OctetString	
	Rx-Request-Type	Enumerated	
	Min-Requested-Bandwidth-DL	Unsigned32	
535	Min-Requested-Bandwidth-UL	Unsigned32	
536	Required-Access-Info	Enumerated	
	IP-Domain-Id	OctetString	
	GCS-Identifier	OctetString	
	Sharing-Key-DL	Unsigned32	
	Sharing-Key-UL	Unsigned32	
	Retry-Interval	Unsigned32	
	Sponsoring-Action	Enumerated	
	Max-Supported-Bandwidth-DL	Unsigned32	
	Max-Supported-Bandwidth-UL	Unsigned32	
	Min-Desired-Bandwidth-DL	Unsigned32	
	Min-Desired-Bandwidth-UL	Unsigned32	
	MCPTT-Identifier	OctetString	
	Service-Authorization-Info	Unsigned32	
	Reserved	-	
	Priority-Sharing-Indicator	Enumerated	
	The AVP codes from 551 to 599 are reserved for TS 29.209, TS 29.2	211 and TS 29.214	
600	Visited-Network-Identifier	OctetString	
601	Public-Identity	UTF8String	
602	Server-Name	UTF8String	
603	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	
	SIP-Authorization	OctetString	
	SIP-Authentication-Context	OctetString	
	SIP-Auth-Data-Item	Grouped	
	SIP-Item-Number	Unsigned32	29.229 [2]
	Server-Assignment-Type	Enumerated	[-]
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
	Reason-Info	UTF8String	
618	Charging-Information	Grouped	
	Primary-Event-Charging-Function-Name	DiameterURI	
	Secondary-Event-Charging-Function-Name	DiameterURI	
	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
		Enumerated	
	I Iser-Authorization-Type		
	User-Authorization-Type		
624	User-Data-Already-Available	Enumerated	
624 625	User-Data-Already-Available Confidentiality-Key	Enumerated OctetString	
624 625 626	User-Data-Already-Available	Enumerated	

000	lo		
	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
631	Supported-Applications	Grouped	
632	Associated-Identities	Grouped	
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	
638	Loose-Route-Indication	Enumerated	
639	SCSCF-Restoration-Info	Grouped	
640	Path	OctetString	
	Contact	OctetString	
	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
645	To-SIP-Header	OctetString	
646	Record-Route	OctetString	
	Associated-Registered-Identities	Grouped	
	Multiple-Registration-Indication	Enumerated	
	Restoration-Info	Grouped	
	Session-Priority	Enumerated	
	Identity-with-Emergency-Registration	Grouped	
652	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	
658	WebRTC-Web-Server-Function-Name	UTF8String	
Note:	The AVP codes from 659 to 699 are reserved for TS 29.229.	·	
	User-Identity	Grouped	
	MSISDN	OctetString	
	User-Data	OctetString	
	Data-Reference	Enumerated	
704	Service-Indication	OctetString	
705	Subs-Req-Type	Enumerated	
706	Requested-Domain	Enumerated	
	Current-Location	Enumerated	
	Identity-Set	Enumerated	
	,		
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	29.329 [4]
712	One-Time-Notification	Enumerated	
	Requested-Nodes	Unsigned32	
	Serving-Node-Indication	Enumerated	
	Repository-Data-ID	Grouped	
	Sequence-Number		
		Unsigned32	
	Pre-paging-Supported	Enumerated	
	Local-Time-Zone-Indication	Enumerated	
719	UDR-Flags	Unsigned32	
	Call-Reference-Info	Grouped	
	Call-Reference-Number	OctetString	
	AS-Number	OctetString	
	The AVP codes from 723 to 799 are reserved for TS 29.329.	Octoconing	
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
	Event-Type	Grouped	
824	SIP-Method	UTF8String	
	Event	UTF8String	
	Content-Type	UTF8String	
	Content-type	Unsigned32	32.299 [5]
	Content-Disposition	UTF8String	
	Role-of-Node	Enumerated	
1 020	User-Session-Id	UTF8String	
030	0361-06331011-10	0 11 0 0 til	

	Calling-Party-Address	UTF8String	
	Called-Party-Address	UTF8String	
	Time-Stamps	Grouped	
	SIP-Request-Timestamp	Time	
	SIP-Response-Timestamp	Time	
	Application-Server	UTF8String	
	Application-provided-called-party-address	UTF8String	
	Inter-Operator-Identifier	Grouped UTF8String	
	Originating-IOI Terminating-IOI	UTF8String	
	IMS-Charging-Identifier	UTF8String	
	SDP-Session-Description	UTF8String	
	SDP-Media-Component	Grouped	
	SDP-Media-Name	UTF8String	
	SDP-Media-Description	UTF8String	
	CG-Address	Address	
	GGSN-Address	Address	
	Served-Party-IP-Address	Address	
	Authorized-QoS	UTF8String	
850	Application-Server-Information	Grouped	
	Trunk-Group-Id	Grouped	
852	Incoming-Trunk-Group-Id	UTF8String	
	Outgoing-Trunk-Group-Id	UTF8String	
	Bearer-Service	OctetString	
	Service-Id	UTF8String	
	Associated-URI	UTF8String	
	Charged-Party	UTF8String	
	PoC-Controlling-Address	UTF8String	
	PoC-Group-Name	UTF8String	
	Cause	Grouped	
	Cause-Code	Integer32	
	Node-Functionality	Enumerated	
	Service-Specific-Data	UTF8String	
864	Originator	Enumerated	
	PS-Furnish-Charging-Information	Grouped	
	PS-Free-Format-Data PS-Append-Free-Format-Data	OctetString Enumerated	
	Time-Quota-Threshold	Unsigned32	
	Volume-Quota-Threshold	Unsigned32	
	Trigger-Type	Enumerated	
	Quota-Holding-Time	Unsigned32	
	Reporting-Reason	Enumerated	
	Service-Information	Grouped	
	PS-Information	Grouped	
	Reserved	-	
	IMS-Information	Grouped	
	MMS-Information	Grouped	
	LCS-Information	Grouped	
	PoC-Information	Grouped	
	MBMS-Information	Grouped	
881	Quota-Consumption-Time	Unsigned32	
882	Media-Initiator-Flag	Enumerated	
	PoC-Server-Role	Enumerated	
	PoC-Session-Type	Enumerated	
	Number-Of-Participants	Unsigned32	
	Originator-Address	Grouped	
	Participants-Involved	UTF8String	
	Expires	Unsigned32	
	Message-Body	Grouped	
	Reserved	-	
ı 894	Reserved	-	
	Reserved	_	

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	Reserved	-	
	Address-Data	UTF8String	
	Address-Domain	Grouped	
899	Address-Type	Enumerated	
	TMGI	OctectString	
	Required-MBMS-Bearer-Capabilities	UTF8String	
902	MBMS-StartStop-Indication	Enumerated	
903	MBMS-Service-Area	OctectString	
	MBMS-Session-Duration	Unsigned32	
	Alternative-APN	UTF8String	
	MBMS-Service-Type	Enumerated	
	MBMS-2G-3G-Indicator	Enumerated	
	MBMS-Session-Identity	OctetString	
909	•	UTF8String	
	Additional-MBMS-Trace-Info		
		OctetString	
	MBMS-Time-To-Data-Transfer	Unsigned32	
	MBMS-Session-Identity-Repetition-Number	Unsigned32	
	MBMS-Required-QoS	UTF8String	
	MBMS-Counting-Information	Enumerated	
	MBMS-User-Data-Mode-Indication	Enumerated	
	MBMS-GGSN-Address	UTF8String	
	MBMS-GGSN-IPv6-Address	UTF8String	29.061 [13]
	MBMS-BMSC-SSM-IP-Address	UTF8String	
919	MBMS-BMSC-SSM-IPv6-Address	UTF8String	
920	MBMS-Flow-Identifier	OctetString	
921	CN-IP-Multicast-Distribution	Enumerated	
	MBMS-HC-Indicator	Enumerated	
	MBMS-Access-Indicator	Enumerated	
	MBMS-GW-SSM-IP-Address	OctetString	
	MBMS-GW-SSM-IPv6-Address	OctetString	
	MBMS-BMSC-SSM-UDP-Port	OctetString	
	MBMS-GW-UDP-Port	OctetString	
	MBMS-GW-UDP-Port-Indicator	Enumerated	
	MBMS-Data-Transfer-Start	Unsigned64	
	MBMS-Data-Transfer-Stop	Unsigned64	
	MBMS-Flags	Unsigned32	
	Restart-Counter	Unsigned32	
	Diagnostic-Info	Unsigned32	
	MBMS-Cell-List	OctetString	
Note:	The AVP codes from 935 to 999 are reserved for TS 29.061		
	Bearer-Usage	Enumerated	
1001	Charging-Rule-Install	Grouped	
1002	Charging-Rule-Remove	Grouped	
	Charging-Rule-Definition	Grouped	
	Charging-Rule-Base-Name	UTF8String	
	Charging-Rule-Name	OctetString	
	Event-Trigger	Enumerated	
	Metering-Method	Enumerated	
	Offline	Enumerated	
	Online	Enumerated	
	Precedence	Unsigned32	
	Reporting-Level	Enumerated	29.212 [19]
	TFT-Filter	IPFilterRule	
	TFT-Packet-Filter-Information	Grouped	
	ToS-Traffic-Class	OctetString	
	QoS-Information Quantum Control of the Control of t	Grouped	
	Charging-Rule-Report	Grouped	
	PCC-Rule-Status	Enumerated	
	Bearer-Identifier	OctetString	
	Bearer-Operation	Enumerated	
	Access-Network-Charging-Identifier-Gx	Grouped	
	Bearer-Control-Mode	Enumerated	
	Network-Request-Support	Enumerated	
	Guaranteed-Bitrate-DL	Unsigned32	
. 525	The second secon	311319110402	

1026 Guaranteed-Bitrate-UL	Unsigned32	
1027 IP-CAN-Type	Enumerated	
1028 QoS-Class-Identifier	Enumerated	
1029 QoS-Negotiation	Enumerated	
1030 QoS-Upgrade	Enumerated	
1031 Rule-Failure-Code	Enumerated	
1032 RAT-Type	Enumerated	
1033 Event-Report-Indication	Grouped	
1034 Allocation-Retention-Priority	Grouped	
1035 CoA-IP-Address	Address	
1036 Tunnel-Header-Filter	IPFilterRule	
1037 Tunnel-Header-Length	Unsigned32	
1038 Tunnel-Information	Grouped	
1039 CoA-Information	Grouped	
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32	
1041 APN-Aggregate-Max-Bitrate-UL	Unsigned32	
1042 Revalidation-Time	Time	
1043 Rule-Activation-Time	Time	
1044 Rule-DeActivation-Time	Time	
1045 Session-Release-Cause	Enumerated	
1046 Priority-Level	Unsigned32	
1047 Pre-emption-Capability	Enumerated	
1048 Pre-emption-Vulnerability	Enumerated	
1049 Default-EPS-Bearer-QoS	Grouped	
1050 AN-GW-Address	Address	
1051 QoS-Rule-Install	Grouped	
1052 QoS-Rule-Remove	Grouped	
1053 QoS-Rule-Definition	Grouped	
1054 QoS-Rule-Name	OctetString	
1055 QoS-Rule-Report	Grouped	
1056 Security-Parameter-Index	OctetString	
1057 Flow-Label	OctetString	
1058 Flow-Information	Grouped	
1059 Packet-Filter-Content	IPFilterRule	
1060 Packet-Filter-Identifier	OctetString	
1061 Packet-Filter-Information	Grouped	
1062 Packet-Filter-Operation	Enumerated	
1063 Resource-Allocation-Notification	Enumerated	
1064 Session-Linking-Indicator	Enumerated	
1065 PDN-Connection-ID	OctetString	
1066 Monitoring-Key	OctetString	
1067 Usage-Monitoring-Information	Grouped	
1068 Usage-Monitoring-Level	Enumerated	
1069 Usage-Monitoring-Report	Enumerated	
1070 Usage-Monitoring-Support	Enumerated	
1071 CSG-Information-Reporting	Enumerated	
1072 Packet-Filter-Usage	Enumerated	
1073 Charging-Correlation-Indicator	Enumerated	
1074 QoS-Rule-Base-Name	UTF8String	
1075 Routing-Rule-Remove	Grouped	
1076 Routing-Rule-Remove	Grouped	
1076 Routing-Rule-Definition	OctetString	
1077 Routing-Rule-Identiller	Grouped	
1078 Routing-Filter 1079 Routing-IP-Address	Address	
1080 Flow-Direction	Enumerated	
1080 Flow-Direction 1081 Routing-Rule-Install	Grouped	
1082 Credit-Management-Status	Unsigned32	
1082 Credit-Management-Status 1085 Redirect-Information		
	Grouped	
1086 Redirect- Support	Enumerated	
1087 TDF-Information	Grouped	
1088 TDF-Application-Identifier	OctetString DiameterIdentity	
1089 TDF-Destination-Host	DiameterIdentity	
1090 TDF-Destination-Realm	DiameterIdentity	
1091 TDF-IP-address	Address	
1092 ADC-Rule-Install	Grouped	

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1093 ADC-Rule-Remove	Grouped	
1094 ADC-Rule-Definition	Grouped	
1095 ADC-Rule-Base-Name	UTF8String	
1096 ADC-Rule-Name	OctetString	
1097 ADC-Rule-Report	Grouped	
1098 Application-Detection-Information	Grouped	
1099 PS-to-CS-Session-Continuity	Enumerated	
Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212	Crauna	
1100 Served-User-Identity 1101 VASP-ID	Groupe UTF8Str	
1102 VAS-ID	UTF8String	
1103 VAS-ID 1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address	Grouped	
1106 Result-Recipient-Address	Grouped	
1107 Sequence-Number	Unsigned32	
1108 Recipient-Address	UTF8String	
1109 Routeing-Address	UTF8String	29.140 [16]
1110 Originating-Interface	Enumerated	20.1 10 [10]
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key	UTF8String	
1115 Billing-Information	UTF8String	
1116 Status	Grouped	
1117 Status-Code	UTF8String	
1118 Status-Text	UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140		
1200 Domain-Name	UTF8String	
1201 Recipient-Address	Grouped	
1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size 1207 Additional-Content-Information	Unsigned32	
1207 Additional-Content-information 1208 Addressee-Type	Grouped Enumerated	
1208 Addressee-Type 1209 Priority	Enumerated	
1210 Message-ID	UTF8String	
1211 Message-Type	Enumerated	
1212 Message-Size	Unsigned32	
1213 Message-Class	Grouped	
1214 Class-Identifier	Enumerated	
1215 Token-Text	UTF8String	
1216 Delivery-Report-Requested	Enumerated	
1217 Adaptations	Enumerated	
1218 Applic-ID	UTF8String	32.299 [5]
1219 Aux-Applic-Info	UTF8String	• •
1220 Content-Class	Enumerated	
1221 DRM-Content	Enumerated	
1222 Read-Reply-Report-Requested	Enumerated	
1223 Reply-Applic-ID	UTF8String	
1224 File-Repair-Supported	Enumerated	
1225 MBMS-User-Service-Type	Enumerated	
1226 Unit-Quota-Threshold	Unsigned32	
1227 PDP-Address	Address	
1228 SGSN-Address	Address	
1229 PoC-Session-Id	UTF8String	
1230 Deferred-Location-Even-Type	UTF8String	
1231 LCS-APN	UTF8String Grouped	
1232 LCS-Client-Id 1233 LCS-Client-Dialed-By-MS	Grouped	
1234 LCS-Client-Dialed-By-MS 1234 LCS-Client-External-ID	UTF8String UTF8String	
1235 LCS-Client-Pame	Grouped	
1236 LCS-Crient-Name 1236 LCS-Data-Coding-Scheme	UTF8String	
1250 200-Data-County-Scrience	UTFOSHING	

	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	
	Requested-Party-Address	UTF8String	
	PoC-User-Role	Grouped	
	PoC-User-Role-IDs	UTF8String	
	PoC-User-Role-info-Units	Enumerated	
	Talk-Burst-Exchange	Grouped	
	Service-Generic-Information	Grouped	
	Service-Specific-Type	Unsigned32	
	Event-Charging-TimeStamp	Time	
	Participant-Access-Priority	Enumerated	
	Participant-Group	Grouped	
	PoC-Change-Conditions	Enumerated	
	PoC-Change-Time	Time	
1263	Access-Network-Information	OctetString	
	Trigger	Grouped	
1265	Base-Time-Interval	Unsigned32	
1266	Envelope	Grouped	
1267	Envelope-End-Time	Time	
1268	Envelope-Reporting	Enumerated	
	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	
	Alternate-Charged-Party-Address	UTF8String	
1281	IMS-Communication-Service-Identifier	UTF8String	
	Number-Of-Received-Talk-Bursts	Unsigned32	
	Number-Of-Talk-Bursts	Unsigned32	
	Received-Talk-Burst-Time	Unsigned32	
	Received-Talk-Burst-Volume	Unsigned32	
	Talk-Burst-Time	Unsigned32	
	Talk-Burst-Volume	Unsigned32	
	Media-Initiator-Party	UTF8String	
	The AVP codes from 1289 to 1399 are reserved for TS 32.299		
	Subscription-Data	Grouped	
	Terminal-Information	Grouped	
1402		UTF8String	
	Software-Version	UTF8String	
	QoS-Subscribed	UTF8String	
	ULR-Flags	Unsigned32	00.070.55.1
	ULA-Flags	Unsigned32	29.272 [21]
	Visited PLMN Id	OctetString	
	Requested-EUTRAN-Authentication-Info	Grouped	
	Requested-UTRAN- GERAN-Authentication-Info	Grouped	
	Number-Of-Requested-Vectors	Unsigned32	
	Re-Synchronization-Info	OctetString	
	,	- 3.0.019	

1412 Immediate-Response-Preferred	Unsigned32
1413 Authentication-Info	Grouped
1414 E-UTRAN-Vector	Grouped
1415 UTRAN-Vector	Grouped
1416 GERAN-Vector	Grouped
1417 Network-Access-Mode 1418 HPLMN-ODB	Enumerated Enumerated
1419 Item-Number	Unsigned32
1420 Cancellation-Type	Enumerated
1421 DSR-Flags	Unsigned32
1422 DSA-Flags	Unsigned32
1423 Context-Identifier	Unsigned32
1424 Subscriber-Status	Enumerated
1425 Operator-Determined-Barring	Unsigned32
1426 Access-Restriction-Data	UTF8String
1427 APN-OI-Replacement	UTF8String
1428 All-APN-Configurations-Included-Indicator	Enumerated
1429 APN-Configuration-Profile	Grouped
1430 APN-Configuration	Grouped
1431 EPS-Subscribed-QoS-Profile	Grouped
1432 VPLMN-Dynamic-Address-Allowed	Enumerated
1433 STN-SR	OctetString
1434 Alert-Reason	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
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated
1458 Trace-Data	Grouped
1459 Trace-Reference	OctetString
1460 Reserved	-
1461 Reserved	- Francisco d
1462 Trace-Depth	Enumerated Octobstring
1463 Trace-NE-Type-List	OctetString
1464 Trace-Interface-List	OctetString
1465 Trace-Event-List	OctetString
1466 OMC-Id 1467 GPRS-Subscription-Data	OctetString Grouped
1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator	Enumerated
1468 Complete-Data-List-included-indicator 1469 PDP-Context	Grouped
1470 PDP-Type	OctetString
1470 PDP-Type 1471 3GPP2-MEID	OctetString
1471 Specific-APN-Info	Grouped
1472 Specific-APN-IIII0 1473 LCS-Info	Grouped
1473 CCS-IIIIO 1474 GMLC-Number	OctetString
1474 GMEC-Number 1475 LCS-PrivacyException	Grouped
1476 SS-Code	OctetString
1710 OO-0000	Octoroning

1477	SS-Status	OctetString	
1478	Notification-To-UE-User	Enumerated	
1479	External-Client	Grouped	
	Client-Identity	OctetString	
	GMLC-Restriction	Enumerated	
	PLMN-Client	Enumerated	
	Service-Type	Grouped	
	Service-Type ServiceTypeIdentity	Unsigned32	
	MO-LR	Grouped	
	Teleservice-List	Grouped	
	TS-Code	Enumerated	
	Call-Barring-Info	Grouped	
1489	SGSN-Number	OctetString	
1490	IDR-Flags	Unsigned32	
1491	ICS-Indicator	Enumerated	
	IMS-Voice-Over-PS-Sessions-Supported	Enumerated	
	Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated	
	Last-UE-Activity-Time	Time	
	EPS-User-State		
		Grouped	
	EPS-Location-Information	Grouped	
	MME-User-State	Grouped	
	SGSN-User-State	Grouped	
1499	User-State	Enumerated	
1500	Non-3GPP-User-Data	Grouped	
1501	Non-3GPP-IP-Access	Enumerated	
	Non-3GPP-IP-Access-APN	Enumerated	
	AN-Trusted	Enumerated	
	ANID	UTF8String	
	Trace-Info	Grouped	
	MIP-FA-RK	OctetString	
	MIP-FA-RK-SPI	Unsigned32	
	PPR-Flags	Unsigned32	
	WLAN-Identifier	Grouped	
	TWAN-Access-Info	Grouped	
	Access-Authorization-Flags	Unsigned32	
1512	TWAN-Default-APN-Context-Id	Unsigned32	
1513	Reserved	-	
1514	Reserved	-	
	Reserved	-	
	Full-Network-Name	OctetString	
	Short-Network-Name	OctetString	
	AAA-Failure-Indication	Unsigned32	
	Transport-Access-Type	Enumerated	00 070 1001
	DER-Flags	Unsigned32	29.273 [20]
	DEA-Flags	Unsigned32	
	RAR-Flags	Unsigned32	
1523	DER-S6b-Flags	Unsigned32	
1524	SSID	UTF8String	
	HESSID	UTF8String	
	Access-Network-Info	Grouped	
	TWAN-Connection-Mode	Unsigned32	
	TWAN-Connectivity-Parameters	Grouped	
		Unsigned32	
	Connectivity-Flags		
	TWAN-PCO	OctetString	
	TWAG-CP-Address	Address	
	TWAG-UP-Address	UTF8String	
	TWAN-S2a-Failure-Cause	Unsigned32	
1534	SM-Back-Off-Timer	Unsigned32	
	WLCP-Key	OctetString	
	3GPP-AAA-Server-Name	DiameterIdentity	
	Origination-Time-Stamp	Unsigned64	
	Maximum-Wait-Time	Unsigned32	
	Emergency- Services	Unsigned32	
	AAR-Flags	Unsigned32 Unsigned32	
4500		T IDEIGNEG 3.7	i e e e e e e e e e e e e e e e e e e e

Note 1: The AVP codes from 1540 to 1599 are reserved for TS 29.273 brote 2: The AVP SQPP-AAA-Server-Name was originally defined in 3GPP TS 29.234 and is now defined in 3GPP TS 29.234 from Rei-12. 1600 IMME-Location-Information Grouped 1601 SGSN-Location-Information Grouped 1602 E-UTRA-Cell-Clobal-Identity OctelString 1603 ITracking-Area-Identity OctelString 1604 Cell-Clobal-Identity OctelString 1604 Cell-Clobal-Identity OctelString 1605 ICreation-Area-Identity OctelString 1605 Location-Area-Identity OctelString 1606 Location-Area-Identity OctelString 1606 Location-Area-Identity OctelString 1607 Service-Area-Identity OctelString 1608 Geographical-Information OctelString 1608 Geographical-Information OctelString 1608 Geographical-Information OctelString 1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Lexteve-APN Grouped 1613 SIFTO-Permission Enumerated 1614 Error-Diagnostic Enumerated 1616 ILPA-Permission Enumerated 1616 ILPA-Permission Enumerated 1618 ILPA-Permission Enumerated 1619 Subscribe-Periodic-RAU-TAU-Timer Unsigned32 1620 Ext-PDP-Type OctelString 1621 Ext-PDP-Address Address 1622 MDT-Configuration Grouped 1623 Job-Type OctelString 1623 Job-Type 1624 Kex-PDR-Address Address 1625 ILST-Chell-Baser Amount Enumerated 1625 ILST-Chell-Baser Month Amount Enumerated 1626 Verni-ThresholdRSRP Unsigned32 1626 Reporting-Trigger Unsigned32 1627 Report-Interval Enumerated 1638 Geographication Enumerated 1639 Subscribed-Periodic-Rau-Tau-Timer Grouped 1630 White-ThresholdRSRQ Unsigned32 1626 Reporting-Trigger Unsigned32 1627 Report-Interval Enumerated 1638 Unsigned32 1639 User-Interval Enumerated 1639 Unsigned32 1631 Logging-Interval Enumerated 1638 Unsigned32 1639 User-Interval Enumerated 1638 Unsigned32 1639 User-Interval Enumerated 1639 Unsigned32 1640 UNA-Flags Unsigned32 1640 UNA-Flags Unsigned32 1650 Geographical-Texter Subscription-Data Grouped 1644 Reserved 1651 GMLC-Name Diameteridentity
29.273 from Rel-12.
1601 SGSN-Location-Information Grouped
1602 E-UTRAN-Cell-Global-Identity
1603 Tracking-Area-Identity
1604 Cell-Global-Identity
1605 Routing-Area-Identity OctetString 1606 Lozation-Area-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Service-Area-Identity OctetString 1609 Geodetic-Information OctetString 1610 Geodetic-Information OctetString 1610 Geodetic-Information OctetString 1611 Age-Of-Location-Information Unsigned32 Active-APN Grouped 1613 SIPTO-Permission Enumerated 1614 Geo-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 SIPTO-Permission Enumerated 1614 Error-Diagnostic Enumerated 1615 UE-SRVCC-Capability Enumerated 1616 MPS-Priority Unsigned32 1617 VPLMM-LIPA-Allowed Enumerated 1618 ILPA-Premission Enumerated 1618 ILPA-Premission Enumerated 1618 ILPA-Premission Enumerated 1618 ILPA-Premission Enumerated 1619 Subscribed-Periodic-RAU-TAU-Timer Unsigned32 1620 Ext-PDP-Address Address Address Address Address Address Address Address Address Address 1622 MDT-Configuration Grouped 1623 Job-Type Grouped 1624 Area-Scope Grouped 1625 Ist-Of-Measurements Unsigned32 1626 Report-Interval Enumerated 1628 Event-ThresholdRSRP Unsigned32 1626 Report-Interval Enumerated 1628 Event-ThresholdRSRQ Unsigned32 1631 Logging-Interval Enumerated 1632 Logging-Interval Enumerated 1633 Relay-Node-Indicator Enumerated 1633 Relay-Node-Indicator Enumerated 1634 MDT-User-Consent Enumerated 1635 Subscribed-VSRVCC Enumerated 1636 Subscribed-VSRVCC Enumerated 1637 Report-Information Enumerated 1638 Unsigned32 1639 UN-Flags Unsigned32 1640 UN-Flags Unsigned32 1641 VPLM-CSG-Subscription-Data Grouped 1642 Time-Zone Grouped 1643 AMSISDN OctetString 1644 Reserved -
1606 Location-Area-Identity
1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString 1610 Current-Location-Retrieved Enumerated Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped Grouped
1609 Geodetic-Information
1610 Current-Location-Retrieved Enumerated Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 SiPTO-Permission Enumerated 1614 Error-Diagnostic Enumerated 1615 UE-SRVCC-Capability Enumerated 1616 MPS-Priority Unsigned32 1617 VPLMN-LIPA-Allowed Enumerated 1618 LIPA-Permission Enumerated 1618 LIPA-Permission Enumerated 1618 LIPA-Permission Enumerated 1619 Subscribed-Periodic-RAU-TAU-Timer Unsigned32 1620 Ext-PDP-Type OctetString 1621 Ext-PDP-Type OctetString 1622 Ext-PDP-Type OctetString 1623 Job-Type Enumerated 1623 Job-Type Enumerated 1624 Area-Scope Grouped 1625 List-Of-Measurements Unsigned32 1627 Report-Interval Enumerated 1628 Report-Amount Enumerated 1628 Event-ThresholdRSRP Unsigned32 1628 Report-Amount Enumerated 1628 Event-ThresholdRSRP Unsigned32 1630 Event-ThresholdRSRP Unsigned32 1631 Logging-Interval Enumerated 1631 Logging-Interval Enumerated 1632 Event-ThresholdRSRP Unsigned32 1630 Event-ThresholdRSRP Unsigned32 1630 Event-ThresholdRSRP Unsigned32 1630 Event-ThresholdRSRP Unsigned32 1630 Unsigned32 1630 Unsigned32 1630 Unsigned32 1631 Logging-Interval Enumerated 1633 Relay-Node-Indicator Enumerated 1634 MDT-User-Consent Enumerated 1635 Enumerated 1636 Subscribed-VSRVCC Enumerated 1637 Equivalent-PLNN-List Grouped 1641 VPLMN-CSG-Subscription-Data Grouped 1642 Time-Zone Unsigned32 1640 UVA-Flags Unsigned32 1640 1641 VPLMN-CSG-Subscription-Data Grouped 1642 1645
1612 Active-APN
1613 SIPTO-Permission
1616 MPS-Priority
1618 UPA-Permission
1618 LIPA-Permission
1610 Subscribed-Periodic-RAU-TAU-Timer
1620 Ext-PDP-Type
1621 Ext-PDP-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 1632 Logging-Duration Enumerated 1633 Relay-Node-Indicator Enumerated 1634 MDT-User-Consent Enumerated 1635 PUR-Flags Unsigned32 1636 Subscribed-VSRVCC Enumerated 1637 Equivalent-PLMN-List Grouped 1638 CLR-Flags Unsigned32 1639 UVR-Flags Unsigned32 1640 UVA-Flags Unsigned32 1641 VPLMN-CSG-Subscription-Data Grouped 1642 Time-Zone UTF8String 1644 Reserved 1645 MME-Number-for-MT-SMS OctetString 1646 Reserved 1647 Reserved 1648 SMS-Register-Request Enumerated 1650 Daylight-Saving-Time Enumerated 1651 GMLC-Name DiameterIdentity 1652 GMLC-Realm DiameterIdentity 1653 GMLC-Realm DiameterIdentity 1653 GMLC-Realm DiameterIdentity 1654 CRAPPA CRAPPA CRAPPA 1655 GMLC-Realm DiameterIdentity 1655 GMLC-Realm DiameterIdentity 1650 Carpoped 1650 Carpoped 1650 Carpoped 1650 Carpoped Carpoped 1650 Carpoped 165
1623 Job-Type
1624 Area-Scope
1625 List-Of-Measurements
1626 Reporting-Trigger Unsigned32 1627 Report-Interval Enumerated 1628 Report-Amount Enumerated 1629 Event-ThresholdRSRP Unsigned32 1630 Event-ThresholdRSRQ Unsigned32 1631 Logging-Interval Enumerated 1632 Logging-Duration Enumerated 1633 Relay-Node-Indicator Enumerated 1634 MDT-User-Consent Enumerated 1635 PUR-Flags Unsigned32 1636 Subscribed-VSRVCC Enumerated 1637 Equivalent-PLMN-List Grouped 1638 CLR-Flags Unsigned32 1639 UVR-Flags Unsigned32 1640 UVA-Flags Unsigned32 1641 VPLMN-CSG-Subscription-Data Grouped 1642 Time-Zone UTF8String 1643 A-MSISDN OctetString 1644 Reserved - 1645 MME-Number-for-MT-SMS OctetString 1646 Reserved - 1648 SMS-Register-Request Enumerated 1650 Daylight-Saving-Time Enumerated 1652 GMLC-Name DiameterIdentity
1627 Report-Interval
1628 Report-Amount Enumerated 1629 Event-ThresholdRSRP Unsigned32 1630 Event-ThresholdRSRQ Unsigned32 1631 Logging-Interval Enumerated 1632 Logging-Duration Enumerated 1633 Relay-Node-Indicator Enumerated 1634 MDT-User-Consent Enumerated 1635 PUR-Flags Unsigned32 1636 Subscribed-VSRVCC Enumerated 1637 Equivalent-PLMN-List Grouped 1639 UVR-Flags Unsigned32 1640 UVA-Flags Unsigned32 1641 VPLMN-CSG-Subscription-Data Grouped 1642 Time-Zone UTF8String 1643 A-MSISDN OctetString 1644 Reserved - 1645 MME-Number-for-MT-SMS OctetString 1646 Reserved - 1647 Reserved - 1648 SMS-Register-Request Enumerated 1650 Daylight-Saving-Time Enumerated 1651 GMLC-Info Grouped 1653 GMLC-Relm DiameterIdentity
1629 Event-ThresholdRSRP
1630 Event-ThresholdRSRQ
1631 Logging-Interval Enumerated 1632 Logging-Duration Enumerated 1633 Relay-Node-Indicator Enumerated 1634 MDT-User-Consent Enumerated 1635 PUR-Flags Unsigned32 1636 Subscribed-VSRVCC Enumerated 1637 Equivalent-PLMN-List Grouped 1638 CLR-Flags Unsigned32 1639 UVR-Flags Unsigned32 1639 UVR-Flags Unsigned32 1639 UVR-Flags Unsigned32 1640 UVA-Flags Unsigned32 1641 VPLMN-CSG-Subscription-Data Grouped 1642 Time-Zone UTF8String 1643 A-MSISDN OctetString 1644 Reserved -
1632 Logging-Duration Enumerated 1633 Relay-Node-Indicator Enumerated 1634 MDT-User-Consent Enumerated 1635 PUR-Flags Unsigned32 1636 Subscribed-VSRVCC Enumerated 1637 Equivalent-PLMN-List Grouped 1638 CLR-Flags Unsigned32 1639 UVR-Flags Unsigned32 1640 UVA-Flags Unsigned32 1641 VPLMN-CSG-Subscription-Data Grouped 1642 Time-Zone UTF8String 1643 A-MSISDN OctetString 1644 Reserved - 1645 MME-Number-for-MT-SMS OctetString 1646 Reserved - 1647 Reserved - 1648 SMS-Register-Request Enumerated 1649 Local-Time-Zone Grouped 1650 Daylight-Saving-Time Enumerated 1651 GMLC-Info Grouped 1652 GMLC-Name
1633 Relay-Node-Indicator Enumerated 1634 MDT-User-Consent Enumerated 1635 PUR-Flags Unsigned32 1636 Subscribed-VSRVCC Enumerated 1637 Equivalent-PLMN-List Grouped 1638 CLR-Flags Unsigned32 1639 UVR-Flags Unsigned32 1640 UVA-Flags Unsigned32 1641 VPLMN-CSG-Subscription-Data Grouped 1642 Time-Zone UTF8String 1643 A-MSISDN OctetString 1644 Reserved - 1645 MME-Number-for-MT-SMS OctetString 1646 Reserved - 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-Realm DiameterIdentity
1634 MDT-User-Consent Enumerated 1635 PUR-Flags Unsigned32 1636 Subscribed-VSRVCC Enumerated 1637 Equivalent-PLMN-List Grouped 1638 CLR-Flags Unsigned32 1639 UVR-Flags Unsigned32 1640 UVA-Flags Unsigned32 1641 VPLMN-CSG-Subscription-Data Grouped 1642 Time-Zone UTF8String 1643 A-MSISDN OctetString 1644 Reserved - 1645 MME-Number-for-MT-SMS OctetString 1646 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-Realm DiameterIdentity
1636Subscribed-VSRVCCEnumerated1637Equivalent-PLMN-ListGrouped1638CLR-FlagsUnsigned321639UVR-FlagsUnsigned321640UVA-FlagsUnsigned321641VPLMN-CSG-Subscription-DataGrouped1642Time-ZoneUTF8String1643A-MSISDNOctetString1644Reserved-1645MME-Number-for-MT-SMSOctetString1646Reserved-1647Reserved-1648SMS-Register-RequestEnumerated1649Local-Time-ZoneGrouped1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity
1637 Equivalent-PLMN-List Grouped 1638 CLR-Flags Unsigned32 1639 UVR-Flags Unsigned32 1640 UVA-Flags Unsigned32 1641 VPLMN-CSG-Subscription-Data Grouped 1642 Time-Zone UTF8String 1643 A-MSISDN OctetString 1644 Reserved - 1645 MME-Number-for-MT-SMS OctetString 1646 Reserved - 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-Realm DiameterIdentity
1638 CLR-Flags Unsigned32 1639 UVR-Flags Unsigned32 1640 UVA-Flags Unsigned32 1641 VPLMN-CSG-Subscription-Data Grouped 1642 Time-Zone UTF8String 1643 A-MSISDN OctetString 1644 Reserved - 1645 MME-Number-for-MT-SMS OctetString 1646 Reserved - 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-Realm DiameterIdentity
1639 UVR-Flags Unsigned32 1640 UVA-Flags Unsigned32 1641 VPLMN-CSG-Subscription-Data Grouped 1642 Time-Zone UTF8String 1643 A-MSISDN OctetString 1644 Reserved - 1645 MME-Number-for-MT-SMS OctetString 1646 Reserved - 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-Realm DiameterIdentity
1640UVA-FlagsUnsigned321641VPLMN-CSG-Subscription-DataGrouped1642Time-ZoneUTF8String1643A-MSISDNOctetString1644Reserved-1645MME-Number-for-MT-SMSOctetString1646Reserved-1647Reserved-1648SMS-Register-RequestEnumerated1649Local-Time-ZoneGrouped1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity
1641 VPLMN-CSG-Subscription-Data Grouped 1642 Time-Zone UTF8String 1643 A-MSISDN OctetString 1644 Reserved - 1645 MME-Number-for-MT-SMS OctetString 1646 Reserved - 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-Realm DiameterIdentity
1642 Time-Zone UTF8String 1643 A-MSISDN OctetString 1644 Reserved - 1645 MME-Number-for-MT-SMS OctetString 1646 Reserved - 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-Realm DiameterIdentity
1643A-MSISDNOctetString1644Reserved-1645MME-Number-for-MT-SMSOctetString1646Reserved-1647Reserved-1648SMS-Register-RequestEnumerated1649Local-Time-ZoneGrouped1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity
1644Reserved-1645MME-Number-for-MT-SMSOctetString1646Reserved-1647Reserved-1648SMS-Register-RequestEnumerated1649Local-Time-ZoneGrouped1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity
1645MME-Number-for-MT-SMSOctetString1646Reserved-1647Reserved-1648SMS-Register-RequestEnumerated1649Local-Time-ZoneGrouped1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity
1646Reserved-1647Reserved-1648SMS-Register-RequestEnumerated1649Local-Time-ZoneGrouped1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity
1647Reserved-1648SMS-Register-RequestEnumerated1649Local-Time-ZoneGrouped1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity
1648SMS-Register-RequestEnumerated1649Local-Time-ZoneGrouped1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity
1649Local-Time-ZoneGrouped1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity
1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity
1651 GMLC-InfoGrouped1652 GMLC-NameDiameterIdentity1653 GMLC-RealmDiameterIdentity
1652 GMLC-NameDiameterIdentity1653 GMLC-RealmDiameterIdentity
1653 GMLC-Realm DiameterIdentity
1654 Subscription-Data-Flags Unsigned32
1655 Measurement-Period-LTE Enumerated
1656 Measurement-Period-UMTS Enumerated
1657 Collection-Period-RRM-LTE Enumerated
1658 Collection-Period-RRM-UMTS Enumerated
1659 Positioning-Method OctetString
1660 Measurement-Quantity OctetString
1661 Event-Threshold-Event-1F Integer32

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1662 Event-Threshold-Event-1I	Integer32	
1663 Restoration-Priority	Unsigned32	
1664 SGs-MME-Identity	UTF8String	
1665 SIPTO-Local-Network-Permission	Unsigned32	
1666 Coupled-Node-Diameter-ID	DiameterIdentity	
1667 WLAN-offloadability	Grouped	
1668 WLAN-offloadability-EUTRAN	Unsigned32	
1669 WLAN-offloadability-UTRAN	Unsigned32	
1670 Reset-ID	OctetString	
1671 MDT-Allowed-PLMN-Id	OctetString	
1672 Adjacent-PLMNs	Grouped	
1673 Adjacent-Access-Restriction-Data	Grouped	
1674 DL-Buffering-Suggested-Packet-Count	Integer32	
1675 IMSI-Group-Id	Grouped	
1676 Group-Service-Id	Unsigned32	
1677 Group-PLMN-Id	OctetString	
1678 Local-Group-Id	OctetString	
1679 AIR-Flags	Unsigned32	
1680 UE-Usage-Type	Unsigned32	
1681 Non-IP-PDN-Type-Indicator	Enumerated	
1682 Non-IP-Data-Delivery-Mechanism	Unsigned32	
1683 Additional-Context-Identifier	Unsigned32	
1684 SCEF-Realm	DiameterIdentity	
1685 Reserved	- Diameteriality	
1686 Preferred-Data-Mode	Unsigned32	
1687 Reserved	-	
1688 Reserved	-	
1689 Reserved		
1690 Reserved		
1691 Reserved	-	
1692 Reserved		
1693 Reserved	-	
1694 MBSFN-Area	Grouped	
1695 MBSFN-Area-ID	Grouped Unsigned32	
	Unsigned32 Unsigned32	
Note: The AVP codes from 1697 to 1699 are reserved for TS 29.27		
2000 SMS-Information		
2000 SMS-Information 2001 Data-Coding-Scheme	Grouped	
	Integer32 Grouped	
2002 Destination-Interface		
2003 Interface-Id	UTF8String	
2004 Interface-Port	UTF8String	
2005 Interface-Text	UTF8String	
2006 Interface-Type	Enumerated	
2007 SM-Message-Type	Enumerated	
2008 Originating-SCCP-Address	Address	
2009 Originator-Interface	Grouped	
2010 Recipient-SCCP-Address	Address	
2011 Reply-Path-Requested	Enumerated ————————————————————————————————————	
2012 SM-Discharge-Time	Time	
2013 SM-Protocol-ID	OctetString	
2014 SM-Status	OctetString	32.299 [5]
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	
2022 Refund-Information2023 Carrier-Select-Routing-Information		
2022 Refund-Information	OctetString	
2022 Refund-Information2023 Carrier-Select-Routing-Information	OctetString UTF8String	
2022 Refund-Information2023 Carrier-Select-Routing-Information2024 Number-Portability-Routing-Information	OctetString UTF8String UTF8String	
2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information 2025 PoC-Event-Type	OctetString UTF8String UTF8String Enumerated	
2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information 2025 PoC-Event-Type 2026 Recipient-Info	OctetString UTF8String UTF8String Enumerated 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	
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	
2066 Charging-Characteristic-Selection-Mode	Enumerated	
2067 SGW-Address	Address	
2068 Dynamic-Address-Flag-Extension	Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.		
2100 reserved	-	
2101 Application-Server-ID	UTF8String	
2102 Application-Service-Type	Enumerated	
2103 Application-Session-ID	Unsigned32	
2104 Delivery-Status	UTF8String	
2105 reserved	-	
2106 reserved		
	-	
2107 reserved	-	
2108 reserved	-	20 000 [5]
2109 reserved		32.299 [5]
2110 IM-Information	Grouped	
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112 Number-Of-Messages-Successfully-Sent	Unsigned32	
2113 Total-Number-Of-Messages-Exploded	Unsigned32	
2114 Total-Number-Of-Messages-Sent	Unsigned32	
2115 DCD-Information	Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String	
2118 Charge-Reason-Code	Enumerated	
Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299.		
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
2202 Subsession-Id	Unsigned32	29.215 [22]
2203 Subsession-Operation	Enumerated	
	Lituilletateu	

2204 Multiple-BBERF-Action	Enumerated	
2205 UE-Local-IPv6-Prefix	OctetString	
2206 DRA-Deployment	Enumerated	
2207 PCRF-Address	DiameterIdentity	
2208 DRA-Binding	Enumerated	
Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215.		
2300 reserved	_	
2301 SIP-Request-Timestamp-Fraction	Unsigned32	
2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2303 Online-Charging-Flag	Enumerated	
2304 CUG-Information	OctetString	
2305 Real-Time-Tariff-Information	Grouped	
2306 Tariff-XML	UTF8String	
2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
2309 Account-Expiration	Time	
2310 AoC-Format	Enumerated	
2311 AoC-Service	Enumerated	32.299 [5]
2312 AoC-Service-Obligatory-Type	Grouped	32.299 [3]
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	-	
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator	Enumerated	
2323 MBMS-Charged-Party	Enumerated	
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.	0.1.01	
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets 2405 GMLC-Address	Unsigned32 Address	
2406 Additional-Serving-Node	Grouped	29.173 [25]
2407 PPR-Address	Address	
2408 MME-Realm	DiameterIdentity	
2409 SGSN-Name	DiameterIdentity	
2410 SGSN-Realm	DiameterIdentity	
2411 RIA-Flags	Unsigned32	
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	
2506 Vertical-Accuracy	Unsigned32	
2507 Vertical-Requested	Enumerated	
2508 Velocity-Requested	Enumerated	
2509 Response-Time	Enumerated	
2510 Supported-GAD-Shapes	Unsigned32	29.172 [24]
2511 LCS-Codeword	UTF8String	
2512 LCS-Privacy-Check	Enumerated	
2513 Accuracy-Fulfilment-Indicator	Enumerated	
2514 Age-Of-Location-Estimate	Unsigned32	
2515 Velocity-Estimate	OctetString	
2516 EUTRAN-Positioning-Data	OctetString	
2517 ECGI	OctetString	
2518 Location-Event	Enumerated	
2519 Pseudonym-Indicator	Enumerated	
2520 LCS-Service-Type-ID	Unsigned32	

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2521 LCS-Privacy-Check-Non-Session	Grouped	
2522 LCS-Privacy-Check-Session	Grouped	
2523 LCS-QoS-Class	Enumerated	
2524 GERAN-Positioning-Info	Grouped	
2525 GERAN-Positioning-Data	OctetString	
2526 GERAN-GANSS-Positioning-Data	OctetString	
2527 UTRAN-Positioning-Info	Grouped	
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	
2537 Area-Identification	Grouped	
2538 Occurrence-Info	Enumerated	
2539 Interval-Time	Unsigned32	
2540 Periodic-LDR-Information	Grouped	
2541 Reporting-Amount	Unsigned32	
2542 Reporting-Interval	Unsigned32	
2543 Reporting-PLMN-List	Grouped	
2544 PLMN-ID-List	Grouped	
2545 PLR-Flags	Unsigned32	
2546 PLA-Flags	Unsigned32	
2547 Deferred-MT-LR-Data	Grouped	
2548 Termination-Cause	Unsigned32	
2549 LRA-Flags	Unsigned32	
2550 Periodic-Location-Support-Indicator	Enumerated	
2551 Prioritized-List-Indicator	Enumerated	
2552 ESMLC-Cell-Info	Grouped	
2553 Cell-Portion-ID	Unsigned32	
2554 1xRTT-RCID	OctetString	
2555 Delayed-Location-Reporting-Data	Grouped	
2556 Civic-Address	UTF8String	
2557 Barometric-Pressure	Unsigned32	
2558 UTRAN-Additional-Positioning-Data	OctetString	
Note: The AVP codes from 2559 to 2599 are reserved for TS 29.172.		
2600 reserved	-	
2601 IMS-Application-Reference-Identifier	UTF8String	
2602 Low-Priority-Indicator	Enumerated	
2603 IP-Realm-Default-Indicator	Enumerated	32.299 [5]
2604 Local-GW-Inserted-Indicator	Enumerated	02.200 [0]
2605 Transcoder-Inserted-Indicator	Enumerated	
2606 PDP-Address-Prefix-Length	Unsigned32	
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299.	1 Onsignedoz	
2701 Transit IOL List	LITTOC+*:	
2701 Transit-IOI-List	UTF8String	
2702 Status-AS-Code	Enumerated	
2703 NNI-Information	Grouped	
2704 NNI-Type	Enumerated	
2705 Neighbour-Node-Address	Address	
2706 Relationship-Mode	Enumerated	
2707 Session-Direction	Enumerated	
2708 From-Address	UTF8String	32.299 [5]
2709 Access-Transfer-Information	Grouped	ა∠.∠ყყ [ე]
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	Grouped	
2715 Reserved		
2716 BSSID	UTF8String	
2717 TAD-Identifier	Enumerated	
ETT IAP Identilie	Litumerateu	

1980 Inches Inc	Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299.		
2801 Inches Image: Content Image:		_	
2803 HeNR-BBF-FODN		Time	
New York 1999			
New York New York			
2006 UDP-Source-Port			
2807 Interview Cost-String Cost-String Cost-String Enumerated	2805 UE-Local-IP-Address	Address	
2808 Mute-Notification	2806 UDP-Source-Port	Unsigned32	
2809 Mute-Notification		OctetString	
2811 MA-CW-Status			
2811 AN-GW-Status			
2812 User-Location-Info-Time			
2814 CS-Service-Resource-Falure-Cause Enumerated 2815 CS-Service-Resource-Falure-Cause Enumerated 2816 CS-Service-Resource-Falure-Cause Enumerated 2817 Default-QoS-Information Grouped 2817 Default-QoS-Information UTFSString 2818 Conditional-APN-Aggregate-Max-Bitrate Grouped 2819 RAN-NAS-Release-Cause OctstString 2820 Presence-Reporting-Area-Identifier OctslString 2821 Presence-Reporting-Area-Identifier OctslString 2822 Presence-Reporting-Area-Information Grouped 2823 Presence-Reporting-Area-Information Grouped 2824 Nett.oc-Access-Support Unsigned32 2825 Fixed-User-Location-Info Grouped 2826 PCSC-Restoration-Indication Unsigned32 2826 PCSC-Restoration-Indication Unsigned32 2827 IP-CAN-Session-Charging-Scope Enumerated 2828 Monitoring-Flags Unsigned32 2829 Default-Access Enumerated 2831 NIBIFOM-Support Unsigned32 2832 RAN-Rule-Support Unsigned32 2833 Routing-Rule-Failure-Code Unsigned32 2834 Routing-Rule-Failure-Code Unsigned32 2835 Routing-Rule-Failure-Code Unsigned32 2836 Routing-Rule-Failure-Code Unsigned32 2837 Traffic-Steering-Policy-Identifier-DL OctstString 2838 Request-Type Unsigned32 2839 Request-Type Unsigned32 2831 Traffic-Steering-Policy-Identifier-DL OctstString 2841 Resource-Release-Notification Enumerated 2842 Removal-Of-Access Enumerated 2843 Traffic-Steering-Policy-Identifier Unsigned32 2841 Resource-Release-Notification Grouped 2842 Removal-Of-Access Enumerated 2843 Routing-Policy-Identifier Grouped 2844 Removal-Of-Access Enumerated 2845 Routing-Policy-Identifier Grouped 2866 Policy-Counter-Status-Report Grouped 2876 Policy-Counter-Status-Report Grouped 2887 Grouped Grouped Grouped 2890 Policy-Counter-Status-Report Grouped 2890 Policy-Counter-Status-Report Grouped 2890 Policy-Counter-Status-Report Grouped 2890 Policy-Counter-Status-Report G			
2814 CS-Service-Resource-Failure-Cause Enumerated 2815 CS-Service-Resource-Result-Operation Enumerated 2816 Default-QoS-Information Grouped 2817 Default-QoS-Information Grouped 2818 Conditional-APN-Aggregate-Max-Bitrate Grouped 2819 RAN-NAS-Release-Cause OctetString 2820 Presence-Reporting-Area-Elements-List OctetString 2821 Presence-Reporting-Area-Information Grouped 2822 Presence-Reporting-Area-Information Grouped 2823 Presence-Reporting-Area-Information Grouped 2824 Presence-Reporting-Area-Information Grouped 2825 Fixed-User-Location-Info Grouped 2826 Fixed-User-Location-Info Grouped 2826 Fixed-User-Location-Info Grouped 2826 Fixed-User-Location-Info Unsigned32 2827 IPC-AN-Session-Charging-Scope Enumerated 2828 Monitoring-Flags Unsigned32 2829 Default-Access Unsigned32 2829 Default-Access Enumerated 2830 NSIFOM-Mode Enumerated 2831 NSIFOM-Mode Enumerated 2832 RAN-Resion-Charging-Reason Unsigned32 2832 Rang-Rule-Failure-Code Unsigned32 2833 Routing-Rule-Report Grouped 2834 Routing-Rule-Report Grouped 2835 Routing-Rule-Report Grouped 2836 Traffic-Steering-Policy-Identifier-DL OctetString 2837 Request-Type Unsigned32 2838 Request-Type Unsigned32 2839 Request-Type Unsigned32 2841 Resource-Release-Notification Grouped 2842 Removal-Of-Access Enumerated 2843 Traffic-Steering-Policy-Information Grouped 2844 Resource-Release-Notification Grouped 2845 Removal-Of-Access Enumerated 2846 Removal-Of-Access Enumerated 2847 Report Grouped 2848 Removal-Of-Access Enumerated 2849 Signed-Status Grouped 2890 Policy-Counter-Status-Report Grouped 2890 Poli			
2815 CS-Service-Resource-Result-Operation			
Befault-Qos-Information			
1817 Default-QoS-Name			
Bat Conditional APN-Aggregate-Max-Bitrate Grouped			
RAN-NAS-Release-Cause			
Presence-Reporting-Area-Identifier			
Presence-Reporting-Area-Identifier			
2822 Presence-Reporting-Area-Information			00.545.55
Persence-Reporting-Area-Status			29.212 [19]
NetLoc-Access-Support			
Response		Ŭ	
Recommendate			
Basa Monitoring-Flags Unsigned32	2826 PCSCF-Restoration-Indication	Unsigned32	
Default-Access	2827 IP-CAN-Session-Charging-Scope	Enumerated	
2830 NBIFOM-Mode		Unsigned32	
2831 NBIFOM-Support			
2832 RAN-Rule-Support Unsigned32 2833 Access-Availability-Change-Reason Unsigned32 2834 Routing-Rule-Failure-Code Unsigned32 2835 Routing-Rule-Report Grouped 2836 Traffic-Steering-Policy-Identifier-DL OctetString 2837 Traffic-Steering-Policy-Identifier-UL OctetString 2838 Request-Type Unsigned32 2839 Execution-Time Time 2840 Conditional-Policy-Information Grouped 2841 Resource-Release-Notification Enumerated 2842 Removal-Of-Access Enumerated 2843 TCP-Source-Port Unsigned32 Note: The AVP codes from 2844 to 2899 are reserved for TS 29.212. 2900 reserved 2901 reserved - 2902 Policy-Counter-Identifier Grouped 2903 Policy-Counter-Status UTFRString 2903 Policy-Counter-Status-Report Grouped 2904 SL-Request-Type Enumerated Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219. 3000 reserved 3001 Device-Action Grouped 3002 Perice-Notification Grouped 3003 Trigger-Data Grouped <td></td> <td></td> <td></td>			
2833 Access-Availability-Change-Reason			
2834 Routing-Rule-Failure-Code Unsigned32 2835 Routing-Rule-Report Grouped 2836 Traffic-Steering-Policy-Identifier-DL OctetString 2837 Traffic-Steering-Policy-Identifier-UL OctetString 2838 Request-Type Unsigned32 2839 Execution-Time Time 2840 Conditional-Policy-Information Grouped 2841 Resource-Release-Notification Enumerated 2842 Removal-Of-Access Enumerated 2843 TCP-Source-Port Unsigned32 2843 TCP-Source-Port Unsigned32 2840 Policy-Counter-Identifier Grouped 2901 Policy-Counter-Status UTF8String 2902 Policy-Counter-Status-Report Grouped 2903 Policy-Counter-Status-Report Grouped 2904 SL-Request-Type Enumerated 3000 reserved -			
Routing-Rule-Report Grouped			
Traffic-Steering-Policy-Identifier-DL			
2837 Traffic-Steering-Policy-Identifier-UL OctetString 2838 Request-Type Unsigned32 2849 Execution-Time Time 2840 Conditional-Policy-Information Grouped 2841 Resource-Release-Notification Enumerated 2842 Removal-Of-Access Enumerated 2843 TCP-Source-Port Unsigned32 Note: The AVP codes from 2844 to 2899 are reserved for TS 29.212. - 2900 reserved - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 2903 Policy-Counter-Status-Report Grouped 2904 SL-Request-Type Enumerated Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219. 3000 reserved 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped 3004 Payload OctetString 3005 Action-Type Enumerated 3006 Priority-Indication Enumerated 3007 Reference-Number Unsigned32 3008 Request-Status Enumerated 3001 Application-Port-Identifier			
2838 Request-Type Unsigned32 2839 Execution-Time Time 2840 Conditional-Policy-Information Grouped 2841 Resource-Release-Notification Enumerated 2842 Removal-Of-Access Enumerated 2843 TCP-Source-Port Unsigned32 Note: The AVP codes from 2844 to 2899 are reserved for TS 29.212. - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 29.219 [26] 2903 Policy-Counter-Status-Report Grouped 2904 SL-Request-Type Enumerated Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219. - 3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped 3004 Payload OctetString 3005 Action-Type Enumerated 3006 Priority-Indication Enumerated 3007 Reference-Number Unsigned32 3008 Delivery-Outcome Enumerated 3010 Application-Port-Identifier Unsigned32 3011 Old-Reference-Number			
2839		ŭ	
2840 Conditional-Policy-Information Grouped 2841 Resource-Release-Notification Enumerated 2842 Removal-Of-Access Enumerated 2843 TCP-Source-Port Unsigned32 Note: The AVP codes from 2844 to 2899 are reserved for TS 29.212. Unsigned32 2900 reserved - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 29.219 [26] 2903 Policy-Counter-Status-Report Grouped 2904 SL-Request-Type Enumerated Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219. Summerated 3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped 3004 Payload OctetString 3005 Action-Type Enumerated 3006 Priority-Indication Enumerated 3007 Reference-Number Unsigned32 3001 Application-Port-Identifier Unsigned32 3011 Old-Reference-Number Unsigned32			
2841Resource-Release-NotificationEnumerated2842Removal-Of-AccessEnumerated2843TCP-Source-PortUnsigned32Note: The AVP codes from 2844 to 2899 are reserved for TS 29.2122900reserved-2901Policy-Counter-IdentifierGrouped2902Policy-Counter-StatusUTF8String2903Policy-Counter-Status-ReportGrouped2904SL-Request-TypeEnumeratedNote: The AVP codes from 2905 to 2999 are reserved for TS 29.2193000Peserved-3001Device-ActionGrouped3002Device-NotificationGrouped3003Trigger-DataGrouped3004PayloadOctetString3005Action-TypeEnumerated3006Priority-IndicationEnumerated3007Reference-NumberUnsigned323008Request-StatusEnumerated3009Delivery-OutcomeEnumerated3010Application-Port-IdentifierUnsigned323011Old-Reference-NumberUnsigned32	2840 Conditional-Policy-Information		
2842 Removal-Of-Access Enumerated 2843 TCP-Source-Port Unsigned32 Note: The AVP codes from 2844 to 2899 are reserved for TS 29.212. - 2900 reserved - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 29.219 [26] 2903 Policy-Counter-Status-Report Grouped - 2904 SL-Request-Type Enumerated - Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219. - - 3000 reserved - - - 3001 Device-Notification Grouped - - 3002 Device-Notification Grouped - - 3004 Payload OctetString - - 3004 Payload OctetString - - - 3006 Priority-Indication Enumerated - - - 3007 Reference-Number Unsigned32 - - - - - 3009 Delivery-Outcome Enumerated - - - - -			
2843 TCP-Source-Port			
Note: The AVP codes from 2844 to 2899 are reserved for TS 29.212. 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type 3006 reserved 3007 reserved 3008 reserved 3009 Device-Action 3009 Device-Notification 3009 Payload 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome 3009 Delivery-Outcome 3000 Reference-Number 3000 Reference-Number 3001 Application-Port-Identifier 3001 Device-Number 3002 Device-Number 3003 Delivery-Outcome 4004 Enumerated 4006 Priority-Indication 4007 Enumerated 4008 Enumerated 4009 Delivery-Outcome 4008 Enumerated 4009 Delivery-Outcome 4009 Delivery-Outcome			
Policy-Counter-Identifier Grouped			
2902Policy-Counter-StatusUTF8String2903Policy-Counter-Status-ReportGrouped2904SL-Request-TypeEnumeratedNote: The AVP codes from 2905 to 2999 are reserved for TS 29.2193000reserved-3001Device-ActionGrouped3002Device-NotificationGrouped3003Trigger-DataGrouped3004PayloadOctetString3005Action-TypeEnumerated3006Priority-IndicationEnumerated3007Reference-NumberUnsigned323008Request-StatusEnumerated3009Delivery-OutcomeEnumerated3010Application-Port-IdentifierUnsigned323011Old-Reference-NumberUnsigned32		-	·
2903Policy-Counter-Status-ReportGrouped2904SL-Request-TypeEnumeratedNote: The AVP codes from 2905 to 2999 are reserved for TS 29.219.3000reserved-3001Device-ActionGrouped3002Device-NotificationGrouped3003Trigger-DataGrouped3004PayloadOctetString3005Action-TypeEnumerated3006Priority-IndicationEnumerated3007Reference-NumberUnsigned323008Request-StatusEnumerated3009Delivery-OutcomeEnumerated3010Application-Port-IdentifierUnsigned323011Old-Reference-NumberUnsigned32			
SL-Request-Type Enumerated			29.219 [26]
Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219. 3000 reserved			
3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped 3004 Payload OctetString 3005 Action-Type Enumerated 3006 Priority-Indication Enumerated 3007 Reference-Number Unsigned32 3008 Request-Status Enumerated 3009 Delivery-Outcome Enumerated 3010 Application-Port-Identifier Unsigned32 3011 Old-Reference-Number Unsigned32		Enumerated	
3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped 3004 Payload OctetString 3005 Action-Type Enumerated 3006 Priority-Indication Enumerated 3007 Reference-Number Unsigned32 3008 Request-Status Enumerated 3009 Delivery-Outcome Enumerated 3010 Application-Port-Identifier Unsigned32 3011 Old-Reference-Number Unsigned32			
3002 Device-Notification Grouped 3003 Trigger-Data Grouped 3004 Payload OctetString 3005 Action-Type Enumerated 3006 Priority-Indication Enumerated 3007 Reference-Number Unsigned32 3008 Request-Status Enumerated 3009 Delivery-Outcome Enumerated 3010 Application-Port-Identifier Unsigned32 3011 Old-Reference-Number Unsigned32		-	
3003 Trigger-Data Grouped 3004 Payload OctetString 3005 Action-Type Enumerated 3006 Priority-Indication Enumerated 3007 Reference-Number Unsigned32 3008 Request-Status Enumerated 3009 Delivery-Outcome Enumerated 3010 Application-Port-Identifier Unsigned32 3011 Old-Reference-Number Unsigned32			
3004 Payload OctetString 3005 Action-Type Enumerated 3006 Priority-Indication Enumerated 3007 Reference-Number Unsigned32 3008 Request-Status Enumerated 3009 Delivery-Outcome Enumerated 3010 Application-Port-Identifier Unsigned32 3011 Old-Reference-Number Unsigned32			
3005 Action-Type Enumerated 3006 Priority-Indication Enumerated 3007 Reference-Number Unsigned32 3008 Request-Status Enumerated 3009 Delivery-Outcome Enumerated 3010 Application-Port-Identifier Unsigned32 3011 Old-Reference-Number Unsigned32			
3006 Priority-Indication Enumerated 3007 Reference-Number Unsigned32 3008 Request-Status Enumerated 3009 Delivery-Outcome Enumerated 3010 Application-Port-Identifier Unsigned32 3011 Old-Reference-Number Unsigned32			
3007Reference-NumberUnsigned323008Request-StatusEnumerated3009Delivery-OutcomeEnumerated3010Application-Port-IdentifierUnsigned323011Old-Reference-NumberUnsigned32			29 368 [27]
3008 Request-StatusEnumerated3009 Delivery-OutcomeEnumerated3010 Application-Port-IdentifierUnsigned323011 Old-Reference-NumberUnsigned32			20.000 [27]
3009Delivery-OutcomeEnumerated3010Application-Port-IdentifierUnsigned323011Old-Reference-NumberUnsigned32			
3010 Application-Port-IdentifierUnsigned323011 Old-Reference-NumberUnsigned32			
3011 Old-Reference-Number Unsigned32			

No. 4 - 7 - AVD 1 - 6 0040 to 0000 1 for TO 00 000		
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368. 3100 IP-SM-GW-Number	OctotCtring	
3101 IP-SM-GW-Name	OctetString DiameterIdentity	
3102 User-Identifier	Grouped	
3103 Service-ID	Enumerated	
3104 SCS-Identity	OctetString	
3105 Service-Parameters	Grouped	
3106 T4-Parameters	Grouped	
3107 Service-Data	Grouped	
3108 T4-Data	Grouped	
3109 HSS-Cause	Unsigned32	
3110 SIR-Flags	Unsigned32	
3111 External-Identifier	UTF8String	
3112 IP-SM-GW-Realm	DiameterIdentity	
3113 AESE-Communication-Pattern	Grouped	
3114 Communication-Pattern-Set	Grouped	
3115 Periodic-Communication-Indicator	Unsigned32	
3116 Communication-Duration-Time 3117 Periodic-Time	Unsigned32 Unsigned32	
3118 Scheduled-Communication-Time	Grouped	
3119 Stationary-Indication	Unsigned32	
3120 AESE-Communication-Pattern-Config-Status	Grouped	
3121 AESE-Error-Report	Grouped	
3122 Monitoring-Event-Configuration	Grouped	
3123 Monitoring-Event-Report	Grouped	
3124 SCEF-Reference-ID	Unsigned32	
3125 SCEF-ID	DiameterIdentity	
3126 SCEF-Reference-ID-for-Deletion	Unsigned32	
3127 Monitoring-Type	Unsigned32	29.336 [28]
3128 Maximum-Number-of-Reports	Unsigned32	
3129 UE-Reachability-Configuration	Grouped	
3130 Monitoring-Duration	Time	
3131 Maximum-Detection-Time	Unsigned32	
3132 Reachability-Type	Unsigned32	
3133 Maximum-Latency 3134 Maximum-Response-Time	Unsigned32	
3135 Location-Information-Configuration	Unsigned32 Grouped	
3136 MONTE-Location-Type	Unsigned32	
3137 Accuracy	Unsigned32	
3138 Association-Type	Unsigned32	
3139 Roaming-Information	Unsigned32	
3140 Reachability-Information	Unsigned32	
3141 IMEI-Change	Unsigned32	
3142 Monitoring-Event-Config-Status	Grouped	
3143 Supported-Service-Masks	Grouped	
3144 Supported-Monitoring-Event-Mask	Unsigned64	
3145 CIR-Flags	Unsigned32	
3146 Service-Result	Grouped	
3147 Service-Result-Code	Unsigned32	
3148 Reference-ID-Validity-Time	Time	
3149 Event-handling 3150 NIDD-Authorization-Request	Unsigned32 Grouped	
3151 NIDD-Authorization-Response	Grouped	
3152 Service-Report	Grouped	
3153 Node-Type	Unsigned32	
3154 S6t-HSS-Cause	Unsigned32	
Note: The AVP codes from 3155 to 3199 are reserved for TS 29.336.		
3200 SM-Delivery-Outcome-T4	Enumerated	
3201 Absent-Subscriber-Diagnostic-T4	Enumerated	1001 700 00
3202 Trigger-Action	Unsigned32	29.337 [29]
3203 MTC-Error-Diagnostic	Unsigned32	
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.		
3300 SC-Address	OctetString	
3301 SM-RP-UI	OctetString	29.338 [30]
3302 TFR-Flags	Unsigned32	

	SM-Delivery- Failure-Cause	Grouped	
	SM-Enumerated-Delivery-Failure-Cause	Enumerated	
	SM-Diagnostic-Info	OctetString	
	SM-Delivery-Timer	Unsigned32	
	SM-Delivery-Start-Time	Time	
	SM-RP-MTI	Enumerated	
	SM-RP-SMEA	OctetString	
	SRR-Flags	Unsigned32	
	SM-Delivery-Not-Intended	Enumerated	
	MWD-Status	Unsigned32	
	MME-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
	MSC-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
	SGSN-Absent-User-Subscriber-Diagnostic SM	Unsigned32	
	SM-Delivery-Outcome	Grouped	
	MME-SM-Delivery-Outcome	Grouped	
	MSC-SM-Delivery-Outcome	Grouped	
	SGSN-SM-Delivery-Outcome	Grouped	
	IP-SM-GW-SM-Delivery-Outcome	Grouped	
	SM-Delivery-Cause	Enumerated	
	Absent-User-Diagnostic-SM	Unsigned32	
	RDR-Flags	Unsigned32	
	SMSMI-Correlation-ID	Unsigned32	
	HSS-ID	UTF8String	
	Originating-SIP-URI	UTF8String	
	Destination-SIP-URI	UTF8String	
	OFR-Flags	Unsigned32	
	Maximum-UE-Availability-Time	Time	
	Maximum-Retransmission-Time	Time	
	Requested-Retransmission-Time	Time	
	SMS-GMSC-Address	OctetString	
	SMS-GMSC-Alert-Event	Unsigned32	
	The AVP codes from 3334 to 3399 are reserved for TS 29.338.		
	reserved	-	
	Reason-Header	UTF8String	
	Instance-Id	UTF8String	
	Route-Header-Received	UTF8String	
	Route-Header-Transmitted	UTF8String	
	SM-Device-Trigger-Information	Grouped	
	MTC-IWF-Address	Address	
	SM-Device-Trigger-Indicator	Enumerated	
	SM-Sequence-Number	Unsigned32	
	SMS-Result	Unsigned32	
	VCS-Information	Grouped	
	Basic-Service-Code	Grouped	
	Bearer-Capability	OctetString	
	Teleservice	OctetString	
	ISUP-Location-Number	OctetString	
	Forwarding-Pending	Enumerated	
	ISUP-Release-Cause	Unsigned32	32.299 [5]
	MSC-Address	OctetString	
	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	
		LITEOCtring	
	Announcing-UE-HPLMN-Identifier	UTF8String	
3427	Announcing-UE-VPLMN-Identifier	UTF8String	
3427 3428	Announcing-UE-VPLMN-Identifier Coverage-Status	UTF8String Enumerated	
3427 3428 3429	Announcing-UE-VPLMN-Identifier Coverage-Status Layer-2-Group-ID	UTF8String Enumerated OctetString	
3427 3428 3429 3430	Announcing-UE-VPLMN-Identifier Coverage-Status Layer-2-Group-ID Monitored-PLMN-Identifier	UTF8String Enumerated OctetString UTF8String	
3427 3428 3429 3430 3431	Announcing-UE-VPLMN-Identifier Coverage-Status Layer-2-Group-ID	UTF8String Enumerated OctetString	

2422 Manitoring LIE VDI MN Identifier	LITTOChring	
3433 Monitoring-UE-VPLMN-Identifier	UTF8String	
3434 ProSe-PC3-Control-Protocol-Cause	Integer32	
3435 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	
3441 ProSe-Direct-Communication-Transmission-Data-Container	Grouped	
3442 ProSe-Direct-Discovery-Model	Enumerated	
3443 ProSe-Event-Type	Enumerated	
3444 ProSe-Function-IP-Address	Address	
3445 ProSe-Functionality	Enumerated	
3446 ProSe-Group-IP-Multicast-Addresses	Address	
3447 ProSe-Information	Grouped	
3448 ProSe-Range-Class	Enumerated	
3449 ProSe-Reason-For-Cancellation	Enumerated	
3450 ProSe-Request-Timestamp	Time	
3451 ProSe-Role-Of-UE	Enumerated	
3452 ProSe-Source-IP-Address	Address	
3453 ProSe-UE-ID	OctetString	
3454 Proximity-Alert-Indication	Enumerated	
3455 Proximity-Alert-Timestamp	Time	
3456 Proximity-Cancellation-Timestamp	Time	
3457 ProSe-Function-PLMN-Identifier	UTF8String	
3458 Application-Specific-Data	OctetString	
3459 Coverage-Info	Grouped	
3460 Location-Info	Grouped	
3461 ProSe-Direct-Communication-Reception-Data-Container	Grouped	
3462 Radio-Frequency	OctetString	
3463 Radio-Parameter-Set-Info	Grouped	
3464 Radio-Parameter-Set-Values	OctetString	
3465 Radio-Resources-Indicator	Integer32	
3466 Time-First-Reception	Time	
3467 Time-First-Transmission	Time	
3468 Transmitter-Info	Grouped	
Note: The AVP codes from 3469 to 3499 are reserved for TS 32.299.		
3500 BMSC-Address	Address	
3501 BMSC-Port	Unsigned32	
3502 MBMS-Bearer-Event	Unsigned32	
3503 MBMS-Bearer-Event-Notification	Grouped	
3504 MBMS-Bearer-Request	Grouped	
3505 MBMS-Bearer-Response	Grouped	
3506 MBMS-Bearer-Result	Unsigned32	
3507 MBMS-Start-Time	Time	
3508 Radio-Frequency	Unsigned32	00.400.5043
3509 TMGI-Allocation-Request	Grouped	29.468 [31]
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-Number	Unsigned32	
3517 MB2U-Security	Unsigned32	
Note: The AVP codes from 3518 to 3599 are reserved for TS 29.468.	5.10.g11040L	
3600 Origin-App-Layer-User-Id	UTF8String	
3601 Target-App-Layer-User-Id	UTF8String	
3602 ProSe-Function-ID	OctetString	
3603 ProSe-Request-Type	Unsigned32	
3604 PDUID	OctetString	29.343 [32]
3605 Application-Data	UTF8String	20.040 [02]
3606 Allowed-Suffixes-Number	Unsigned32	
3607 Monitor-Target	Grouped	
10007 INDITION TAILY OF	Groupeu	
3608 ProSe-Code-Suffix-Mask	Grouped	

3609 Suffix-Code	OctotCtring	
	OctetString OctetString	
3610 Suffix-Mask 3611 Banned-User-Target	Grouped	
3612 Metadata-Indicator	Unsigned32	
Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343.	Unsigned32	
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.	Offsigned32	
3800 Reserved		
3801 App-Layer-User-Id	UTF8String	
3802 Assistance-info	Grouped	
3803 Assistance-Info-Validity-Timer	Unsigned32	
3804 Discovery-Type	Unsigned32	
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-Id	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	
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	29.345 [34]
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	OctetString	
3837 UTC-based-Counter	Unsigned32	
3838 ProSe-Match-Refresh-Timer	Unsigned32	
3839 ProSe-Metadata-Index-Mask	OctetString	
3840 App-Identifier	Grouped	
3841 OS-ID	OctetString	
3842 OS-App-ID	UTF8String	
3843 Requesting-RPAUID	UTF8String	
3844 Target-RPAUID	UTF8String	
3845 Target-PDUID	OctetString	
3846 ProSe-Restricted-Code	OctetString	
3847 ProSe-Restricted-Code-Suffix-Range	OctetString	
3848 Beginning-Suffix	OctetString	
3849 Ending-Suffix	OctetString	
3850 Discovery-Entry-ID	Unsigned32	

	Match-Timestamp	Time	
	PMR-Flags	Unsigned32	
	ProSe-Application-Metadata	UTF8String	
	Discovery-Auth-Request	Grouped	
	Discovery-Auth-Response	Grouped	
	Match-Request	Grouped	
	Match-Report-Info	Grouped	
	Banned-RPAUID	UTF8String	
	Banned-PDUID	OctetString	
	Code-Receiving-Security-Material Code-Sending-Security-Material	Grouped Grouped	
	DUSK	OctetString	
	DUIK	OctetString	
	DUCK	OctetString	
	MIC-Check-indicator	Unsigned32	
	Encrypted-Bitmask	OctetString	
	ProSe-App-Code-Suffix-Range	OctetString	
	The AVP codes from 3868 to 3899 are reserved for TS 29.345.	Octetotring	
	Reserved		
	Enhanced-Diagnostics	Grouped	
	Inter-UE-Transfer	Enumerated	
	TWAG-Address	Address	
	Announcement-Information	Grouped	
	Announcement-Identifier	Unsigned32	
	Announcement-Order	Unsigned32	
	Variable-Part	Grouped	
3908	Variable-Part-Order	Unsigned32	
	Variable-Part-Type	Unsigned32	
	Variable-Part-Value	UTF8String	
3911	Time-Indicator	Unsigned32	
3912	Quota-Indicator	Enumerated	
3913	Play-Alternative	Enumerated	
3914	Language	UTF8String	
3915	Privacy-Indicator	Enumerated	
	Called-Identity	UTF8String	
	Called-Identity-Change	Grouped	
	UWAN-User-Location-Info	Grouped	
	Monitoring-Event-Configuration-Activity	Integer32	
	Monitoring-Event-Report-Data	Grouped	
3921	Monitoring-Event-Information	Grouped	32.299 [5]
	Monitoring-Event-Functionality	Integer32	
	Monitoring-Event-Report-Number	Unsigned32	
	Cellular-Network-Information	OctetString	
	Related-Change-Condition-Information	Grouped	
	Related-Trigger	Grouped	
	CPDT-Information NIDD-Submission	Grouped Grouped	
	Serving-Node-Identity	DiameterIdentity	
	CP-CloT-EPS-Optimisation-Indicator	Enumerated	
	SGi-PtP-Tunnelling-Method	Enumerated	
	UNI-PDU-CP-Only-Flag	Enumerated	
	APN-Rate-Control	Grouped	
	APN-Rate-Control-Downlink	Grouped	
	APN-Rate-Control-Downlink APN-Rate-Control-Uplink	Grouped	
	Additional-Exception-Reports	Enumerated	
	Rate-Control-Max-Message-Size	Unsigned32	
	Rate-Control-Max-Rate	Unsigned32	
	Rate-Control-Time-Unit	Unsigned32	
	SCS-AS-Address	Grouped	
	SCS-Address	Address	
	SCS-Realm	DiameterIdentity	
	The AVP codes from 3943 to 3999 are reserved for TS 32.299.	· · · · · · ·	
	Aggregated-Congestion-Info	Grouped	
	Aggregated-RUCI-Report	Grouped	29.217 [35]
	Congestion-Level-Definition	Grouped	

4002 Congestion Level Ponge	Ungianod22	
4003 Congestion-Level-Range 4004 Congestion-Level-Set-Id	Unsigned32	
	Unsigned32	
4005 Congestion-Level-Value	Unsigned32	
4006 Congestion-Location-Id	Grouped	
4007 Conditional-Restriction	Unsigned32	
4008 eNodeB-Id	OctetString	
4009 IMSI-List	OctetString	
4010 RCAF-Id	DiameterIdentity	
4011 Reporting-Restriction	Unsigned32	
4012 RUCI-Action	Unsigned32	
Note: The AVP codes from 4013 to 4099 are reserved for TS 29.217.		
4101 Network-Congestion-Area-Report	Grouped	29.153 [37]
4102 Ns-Request-Type	Unsigned32	
Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.		
4201 Network-Area-Info-List	OctetString	
4202 Reference-Id	OctetString	
4203 Transfer-Request-Type	Unsigned32	
4204 Time-Window	Grouped	
4205 Transfer-End-Time	Time	29.154 [38]
4206 Transfer-Start-Time	Time	- []
4207 Transfer-Policy	Grouped	
4208 Transfer-Policy-Id	Unsigned32	
4209 Number-Of-UEs	Unsigned32	
Note: The AVP codes from 4210 to 4299 are reserved for TS 29.154.	Onsignedoz	
4300 Communication-Failure-Information	Grouped	
4301 Cause-Type	Unsigned32	
4302 S1AP-Cause	Unsigned32	
4303 RANAP-Cause	Unsigned32	
4304 GMM-Cause		
	Unsigned32	
4305 SM-Cause	Unsigned32	
4306 Number-of-UE-Per-Location-Configuration	Grouped	
4307 Number-of-UE-Per-Location-Report	Grouped	
4308 UE-Count	Unsigned32	
4309 BSSGP-Cause	Unsigned32	
4310 Serving-PLMN-Rate-Control	Grouped	29.128 [36]
4311 Uplink-Rate-Limit	Unsigned32	
4312 Downlink-Rate-Limit	Unsigned32	
4313 Extended-PCO	OctetString	
4314 Connection-Action	Unsigned32	
4315 Non-IP-Data	OctetString	
4316 SCEF-Wait-Time	Time	
4317 CMR-Flags	Unsigned32	
4318 RRC-Cause-Counter	Grouped	
4319 Counter-Value	Unsigned32	
4320 RRC-Counter-Timestamp	Time	
Note: The AVP codes from 4321 to 4399 are reserved for TS 29.128.	•	
4500 MCPTT-ID	UTF8String	
4501 Data-Identification	Grouped	
4502 Data-Identification-Prefix	Unsigned32	
4503 Data-Identification-Flags	Unsigned64	
4504 DPR-Flags	Unsigned32	
4505 DPA-Flags	Unsigned32	
4506 DUR-Flags	Unsigned32	29.283 [39]
4507 DUA-Flags	Unsigned32	29.203 [38]
4508 NDR-Flags	Unsigned32	
4509 NDA-Flags	Unsigned32	
4510 User-Data-Id	Unsigned32	
4511 MC-Service-User-Profile-Data	Grouped	
4512 Sequence-Number	Unsigned32	
Note: The AVP codes from 4514 to 4599 are reserved for TS 29.283.		

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.

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

Table 8.1.2: 3GPP specific Success result codes

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS						
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]						
4101	NAMETER_PRIOR_UPDATE_IN_PROGRESS							
Note: The Experimental Result Codes from 4102 to 4120 are reserved for the TS 29.329.								
4121	DIAMETER_ERROR_OUT_OF_RESOURCES 29.061 [1							
Note: The Experime	Note: The Experimental Result Codes from 4122 to 4140 are reserved for the TS 29.061.							
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 Experime	ntal Result Codes from 4145 to 4160 are reserved for the TS 29.212							
		32.299 [5]						
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.							
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	29.272 [21]						
4182	DIAMETER_ERROR_CAMEL_SUBSCRIPTION_PRESENT	29.272 [21]						
	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.							
	DIAMETER_ERROR_ABSENT_USER	29.173 [25]						
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.							
4221	DIAMETER_ERROR_UNREACHABLE_USER							
4222	DIAMETER_ERROR_SUSPENDED_USER							
4223	DIAMETER_ERROR_DETACHED_USER	29.172 [24]						
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]						
4225	DIAMETER_ERROR_POSITIONING_FAILED							
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT							
	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.							
	DIAMETER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	29.219 [26]						
Note: The Experime	ntal Result Codes from 4242 to 4260 are reserved for the TS 29.219.							
	REQUESTED_SERVICE_TEMPORARILY_NOT_AUTHORIZED	29.214 [18]						
Note: The Experime	ntal Result Codes from 4262 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

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5008	DIAMETER ERROR TOO MUCH DATA	
5009	DIAMETER ERROR NOT SUPPORTED USER DATA	
5010	unassigned	
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED	
5012	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]
Note: The Evne	I rimental Result Codes from 5021 to 5040 are reserved for the T	
5041	DIAMETER ERROR USER NO WLAN SUBSCRIPTION	J JL. L J J.
5042	DIAMETER_ERROR_USER_NO_WEAN_SUBSCRIPTION DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5042	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC	
	RIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	
	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	29.209 [8],
5064	DUPLICATED_AF_SESSION	29.211 [17] ,
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.214 [18]
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	20.214[10]
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
5068	TEMPORARY_NETWORK_FAILURE	
	rimental Result Codes from 5069 to 5080 are reserved for TS 29 TS 29.214.	9.209, TS 29.211
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	20 220 [4]
5105	DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC	29.329 [4]
5106	DIAMETER ERROR SUBS DATA ABSENT	
5107	DIAMETER ERROR NO SUBSCRIPTION TO DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	rimental Result Codes from 5109 to 5119 are reserved for the T	S 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
	primental Result Codes from 5124 to 5139 are reserved for the TS	S 29.061.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	20.001.
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER PCC RULE EVENT	
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	
5145	D DIAMETER_QOS_RULE_EVENT	29.212 [19]
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
5148	DIAMETER_ADC_RULE_EVENT	
5149	DIAMETER_ERROR_NBIFOM_NOT_AUTHORIZED	
	rimental Result Codes from 5150 to 5159 are reserved for the T	S 20 212
5401	DIAMETER_ERROR_IMPI_UNKNOWN	J
		29.109 [7
5402	DIAMETER_ERROR_NOT_AUTHORIZED	=

	1	T
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	2.00.400
	erimental Result Codes from 5404 to 5419 are reserved for the TS	S 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	00 070 [04]
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE erimental Result Codes from 5424 to 5449 are reserved for the T	C 20 272
5450	DIAMETER ERROR USER NO NON 3GPP SUBSCRIPTI	5 29.212.
3430	ON	
5451	DIAMETER ERROR USER NO APN SUBSCRIPTION	
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	29.273 [20]
5453	DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST	
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST	
	erimental Result Codes from 5455 to 5469 are reserved for the TS	S 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	S 29.215.
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET	20 172 [25]
	WORK	29.173 [25]
	erimental Result Codes from 5491 to 5509 are reserved for the T	S 29.173.
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI	
	TY	
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
5512	DIAMETER_ERROR_REQUESTED_RANGE_IS_NOT	
5540	ALLOWED DIAMETER ERROR CONFIGURATION EVENT STORAGE	29.336 [28]
5513	NOT_SUCCESSFUL	
5514	DIAMETER ERROR CONFIGURATION EVENT NON EXIS	
3314	TANT	
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	
	erimental Result Codes from 5516 to 5529 are reserved for the TS	S 29 336
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	20.000.
5531	DIAMETER ERROR SC CONGESTION	
5532	DIAMETER_ERROR_SM_PROTOCOL	00 007 [00]
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	29.337 [29]
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5535	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING	
Note: The Expe	erimental Result Codes from 5536 to 5549 are reserved for the TS	S 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	C 20 220
5570	erimental Result Codes from 5559 to 5569 are reserved for the TS DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	5 29.338. 29.219 [26]
	Experimental Result Codes from 5571 to 5589 are reserved for t	
5590	DIAMETER ERROR ORIGIN ALUID UNKNOWN	10 10 23.213.
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	
5592	DIAMETER_ERROR_PFID_UNKNOWN	
5593	DIAMETER_ERROR_APP_REGISTER_REJECT	
5594	DIAMETER ERROR PROSE MAP REQUEST DISALLOWE	
	D	
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	
5596	DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN	29.343 [32]
5597	DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_S	
	ET	
5598	DIAMETER_ERROR_MISSING_APPLICATION_DATA	
5599	DIAMETER_ERROR_AUTHORIZATION_REJECT	
5600	DIAMETER_ERROR_DISCOVERY_NOT_PERMITTED	
5601	DIAMETER_ERROR_TARGET_RPAUID_UNKNOWN	
5602	DIAMETER_ERROR_INVALID_APPLICATION_DATA	

Note: The Expe	erimental Result Codes from 5603 to 5609 are reserved for the TS	S 29.343.
5610	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION	
5611	DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]
5612	DIAMETER_ERROR_UE_LOCATION_UNKNOWN	
Note: The Expe	erimental Result Codes from 5613 to 5629 are reserved for the TS	\$ 29.344.
5630	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER	
5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_ PLMN	
5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE	
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	
5634	DIAMETER_ERROR_PROXIMITY_REJECTED	
5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	20 245 [24]
5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN	29.345 [34]
5637	DIAMETER_ERROR_PROXIMITY_CANCELLED	
5638	DIAMETER_ERROR_INVALID_TARGET_PDUID	
5639	DIAMETER_ERROR_INVALID_TARGET_RPAUID	
5640	DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO DE	
5641	DIAMETER_ERROR_INVALID_DISCOVERY_TYPE	
Note: The Expe	erimental Result Codes from 5642 to 5649 are reserved for the TS	\$ 29.345.
5650	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED	
5651	DIAMETER_ERROR_INVALID_EPS_BEARER	
5652	DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAIL ABLE	29.128 [36]
5653	DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E	
Note: The Expe	erimental Result Codes from 5654 to 5669 are reserved for the TS	S 29.128.
5670	DIAMETER_ERROR_UNKNOWN_DATA	1001 000 00
5671	DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	29.283 [39]
Note: The Expe	erimental Result Codes from 5672 to 5689 are reserved for the TS	S 29.283.

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

					Change history		
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292			Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25	NP-040401	001		Correction of Charging application reference	6.0.0	6.1.0
2004-09	CN#25	NP-040401	002		Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Removal of User Data Request Type AVP	6.0.0	6.1.0
2004-09	CN#25	NP-040412	004	1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26	NP-040579			Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12	CN#26	NP-040580	007	1	Reservation of command code 310	6.1.0	6.2.0
2004-12	CN#26	NP-040579	009	1	Addition of Gmb interface	6.1.0	6.2.0
2004-12	CN#26	NP-040600	010	2	Documenting the Reuse of the 3GPP specific application identifier	6.1.0	6.2.0
					of Ro for Re on the Charging Interfaces		
2004-12	CN#26	NP-040579	011		Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047		1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039			Allocations for Gx interface		
		NP-050039			Allocations for Gmb interface		
		NP-050039			Allocations for MMS, MM10 Interface		
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.3.0	6.4.0
		CP-050196		1	Addition of Maximum-Number-Accesses AVP		
2005-09	CT#29	CP-050440	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			Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-12	CT#30	CP-050624	0058		Addition of GBA-Type AVP	7.0.0	7.1.0
		CP-050612	0063		Additional Gmb AVP Allocation		
		CP-050612	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
		CP-060084			User-Data in the response to Sh-Subs-Notif		
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure		
2006-06	CT#32	CP-060302	0075		S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417		3	New AVP Code	7.3.0	7.4.0
		CP-060417			Errors to be sent in response to Sh-Notif		
		CP-060417	0081		Definition of specific Diameter codes for DSAI		
2006-12	CT#34	CP-060566		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		
		CP-060566			Allocation of Success Result Code Range for Gi Interface		
2007-03	CT#35	CP-070020			C3 requested addition of new AVP code values to 3GPP TS 29.230	7.5.0	7.6.0
		CP-070020	0093		Allocation of new AVP code for DSAI-Tag AVP		
		CP-070020			Allocation of Experimental-Result-Code AVP for Gi Interface		
2007-06	CT#36	CP-070318			Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312	0098		Experimental-Result-Codes for Gmb interface		
		CP-070312			Correction of Diameter AVP code allocation		
2007-09	CT#37	CP-070527			Application ID for Gx protocol	7.7.0	7.8.0
2007-12	CT#38	CP-070743			AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
			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	
2008-03	CT#39	CP-080015			Correction of reference to TS 29.140	8.0.0	8.1.0
		CP-080019			AVP code reservation for TS 32.299 in Rel-8	1	
		CP-080019			Wildcarded Public User Identities		
		CP-080191		1	Correction on AVP code allocation reservation for TS 32.299 in Rel-		
		2. 300.01			7		
		CP-080204	0113	1	Correction on AVP code allocation reservation for TS 32.299	1	1
	CT#40	CP-080267			A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-06				Ė	Emergency Public User Identity Removal	8.2.0	8.3.0
2008-06	CT#41	1CP-080455					
2008-09	CT#41 CT#41	CP-080456 CP-080460		1		0.2.0	
2008-09 2008-09	CT#41	CP-080460	0121	1	Support of "Loose-Route" indication from HSS	0.2.0	
2008-09			0121 0122			0.2.0	

2008-09	CT#41	CP-080463			New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42	CP-080691		2	Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691		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		1	Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090026			Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033			Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024		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	0129	4	Update of the AVP Codes	8.5.0	8.6.0
		CP-090299			AVP code reservation for TS 32.299		
		CP-090299	0145		Diameter Command Codes for S6a/S6d/S13/S13'		
			0146		Removal of Requesting Node Type from AIR		
		CP-090299			S6b Application ID		
2009-09	CT#45	CP-090530			Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
		CP-090530			AVP code allocation for TS 29.212		
		CP-090531			Update of the AVP type for the User-Id		
		CP-090531	0153		Trace Depth per session		
2009-09	CT#45	CP-090557			AVP code range for charging	8.7.0	9.0.0
2009-12	CT#46	CP-090800		1	ICS-Flag	9.0.0	9.1.0
		CP-091032			From GMLC-Address to GMLC-Number		
			0160		Session-Priority AVP		
			0163	2	Introduction of SLh application related AVPs and Experimental Result codes		
			0166		Missing AVP error codes		
		CP-090797	0167	1	Introduction of SLg application related AVPs and Application		
					Identifier		
2010-03	CT#47	CP-100031		1	Wildcarded Public Identity	9.1.0	9.2.0
		CP-100034	0168	1	Correction on AVP code allocation reservation for TS 32.299 in Rel-		
					9		
		CP-100046		1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109		
		CP-100046		4	Error codes in 29.172 for SLg		
		CP-100048 CP-100040		ı	AVPs in 29.272 for TADS support Error codes in 29.272 for Unknown MME	1	
		CP-100040		4	EPS Subcsriber State and Location Information Request		
		CP-100230		4	One time notification AVP allocation	1	
		CP-100046			Addition of the LCS-QoS-Class attribute value	-	
		CP-100175			Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
2010-06	CT#48	CP-100263		1	AVP Codes for PCC	9.2.0	9.3.0
			0183		EPS state and location retrieval		
		CP-100287	0186		SGmb Application ID		
		CP-100277	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
					interfaces		
		CP-100464			AVP Codes Allocation for PCC		
2010-09	CT#49	CP-100465		1	SIPTO Permission Indicator	9.4.0	10.0.0
		CP-100466			Location data including only serving node address		
0040.40	OT#50	CP-100466		1	AVP for Update-Eff feature	40.00	40.4.0
2010-12	CT#50	CP-100699		1	Enhanced SRVCC Subscriber Data	10.0.0	10.1.0
		CP-100687 CP-100683		1	Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA	-	
		CP-100683 CP-100688		1	Periodic TAU/RAU timer in HSS subscription	1	
		CP-100886		1	S6a Error Diagnostic	1	
2044.02	CT#51	CP-100646		1	PDP-Address correction	10.1.0	10.2.0
7011-03	01//01	CP-110054			Essential correction on the value type of the ELP Application AVPs	10.1.0	10.2.0
2011-03		CF-IIIII	102 1:3	-			
2011-03		CP-110034	0213	2	Minimization of Drive Tests (MDT)		
2011-03		CP-110087	0207	2	Minimization of Drive Tests (MDT) Relay Node Indicator AVPs		
	CT#52	CP-110034 CP-110087 CP-110349	0207 0209	1	Relay Node Indicator AVPs	10.2.0	10.3.0
	CT#52	CP-110087 CP-110088	0207 0209 0219	1		10.2.0	10.3.0
	CT#52	CP-110087 CP-110088 CP-110349	0207 0209 0219 0231	1	Relay Node Indicator AVPs Handling of RTR for Emergency Registration	10.2.0	10.3.0
	CT#52	CP-110087 CP-110088 CP-110349 CP-110347 CP-110359 CP-110380	0207 0209 0219 0231 0226 0216	1	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	10.2.0	10.3.0
	CT#52	CP-110087 CP-110088 CP-110349 CP-110347 CP-110359 CP-110370	0207 0209 0219 0231 0226 0216 0223	1	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	10.2.0	10.3.0
2011-06		CP-110087 CP-110088 CP-110349 CP-110347 CP-110359 CP-110370 CP-110375	0207 0209 0219 0231 0226 0216 0223 0227	1	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		
	CT#52	CP-110087 CP-110088 CP-110349 CP-110347 CP-110359 CP-110370 CP-110375 CP-110559	0207 0209 0219 0231 0226 0216 0223 0227 0236	1	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 AVP code alignment with 29.212	10.2.0	10.3.0
2011-06		CP-110087 CP-110088 CP-110349 CP-110347 CP-110359 CP-110370 CP-110375 CP-110559 CP-110555	0207 0209 0219 0231 0226 0216 0223 0227 0236 0239	1	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 AVP code alignment with 29.212 AVP code alignment with 32.299		
2011-06		CP-110087 CP-110088 CP-110349 CP-110347 CP-110359 CP-110370 CP-110375 CP-110555 CP-110554	0207 0209 0219 0231 0226 0216 0223 0227 0236 0239	1	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 AVP code alignment with 29.212 AVP code alignment with 32.299 AVP code alignment with 29.214		
2011-03		CP-110087 CP-110088 CP-110349 CP-110347 CP-110359 CP-110370 CP-110375 CP-110559 CP-110555	0207 0209 0219 0231 0226 0216 0223 0227 0236 0239 0244 0249	1	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 AVP code alignment with 29.212 AVP code alignment with 32.299		

2011-09		CP-110722	0257	2	Priviledged sender	7	
ļ!	CT#53	CP-110584			Add vSRVCC updates to the Diameter AVP code table	10.4.0	11.0.0
		CP-110579			AVP code alignment with 32.299	1	
		CP-110555			AVP code reservation for 29.212		
2011-12	CT#54	CP-110812		1	SWx Restoration AVPs	11.0.0	11.1.0
		CP-110812			Sy and Sd Application IDs	-	
		CP-110775 CP-110775		1	New AVP codes for MBMS IP unicast encapsulation New AVP codes for MBMS IP multicast encapsulation	-	
		CP-110773		1	MME-Realm AVP code allocation	-	
İ		CP-110811		†	Equivalent PLMN CSG Subscription Request	-	
İ		CP-110781	_	1	Restoration of Wildcarded-IMPU AVP	1	
2012-03	CT#55	CP-120025	0286	1	Codes Allocation for AVPs on Initial Attach	11.1.0	11.2.0
İ		CP-120038	0288		New AVP codes for Absolute Time of MBMS Data Transfer over		
İ		00 400000	2004		SGmb	_	
2012-06	CT#56	CP-120038 CP-120240		1	Allocating Diameter AVP codes for TS 29.219 and TS 29.212 Codes Allocation for AVPs on NPLI	11.2.0	11 2 0
2012-00	C1#30	CP-120240			Adding new Diameter AVPs to Diameter table to support Trusted	11.2.0	11.3.0
İ		01 -120230	0234		WLAN Access feature		
İ		CP-120225	0296	1	Trust Relationship Indication	1	
İ		CP-120251			Corrections to reference titles		
İ		CP-120251		1	Diameter Code Allocation for TS 29.219	1	
i		CP-120247		-	Network Name AVP codes		
		CP-120219		-	Duplicated AVP names		
2012-09	CT#57	CP-120481			PS additional number allocation	11.3.0	11.4.0
i		CP-120473			SMS in MME/SGSN	_	
İ		CP-120461		2	AAA Failure Recovery AVP codes	-	
İ		CP-120474 CP-120480		1	Transport Access Type AVP for BBAI Local Time Zone	-	
İ		CP-120472		<u>'</u>	Allocating Application Identifier and command code for Tsp	-	
İ		01 120472	0000		interface		
İ		CP-120472	0309	-	Application Identifier, Command Codes and AVP range for S6m		
i					interface		
İ		CP-120667			GMLC-Name		
			0313		Reference list correction to align with the corrected TS 29.212 title	<u> </u>	
2012-12	CT#58	CP-120731			T4 device triggering via IMS	11.4.0	11.5.0
İ		CP-120731		1	Codes and Identifier Allocation for T4 Specification	-	
İ		CP-120731 CP-120731		-	AVP Code Allocation for 29.336 Diameter AVP code value allocation in TS 29.368	-	
İ		CP-120731			Application Identifier, Command Codes and AVP codes for SGd,	-	
İ		01 120702	0010	_	S6c		
İ		CP-120716	0324	1	AVP name modification in TS 32.299	1	
İ		CP-120742	0325	-	UE Time Zone AVP	1	
İ		CP-120741		1	Use of Flag instead of Enumerated AVPs]	
i		CP-120741		-	Use of Flag instead of Enumerated AVPs		
İ		CP-120743		<u>-</u>	PSI direct routing with restoration procedures	_	
				-	EPS LocationInformation Support		
2042 02	OT#50	CP-120743		T .		44.5.0	44.00
2013-03	CT#59	CP-130026			Diameter error code for TS 29.219	11.5.0	11.6.0
		CP-130026 CP-130026	0336	-	MDT parameters		
2013-03	CT#59	CP-130026 CP-130026 CP-130156	0336 0337	1	MDT parameters New AVPs for Lgd interface	11.5.0	
2013-03	CT#59	CP-130026 CP-130026 CP-130156 CP-130030	0336 0337 0341	-	MDT parameters New AVPs for Lgd interface Validity Time of Short Message	11.6.0	12.0.0
		CP-130026 CP-130026 CP-130156	0336 0337 0341 0362	- 1	MDT parameters New AVPs for Lgd interface		12.0.0
2013-03	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288	0336 0337 0341 0362 0360	- 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP	11.6.0	12.0.0
2013-03	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279	0336 0337 0341 0362 0360 0358 0354	- 1 - - 1	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-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279 CP-130380	0336 0337 0341 0362 0360 0358 0354 0363	- 1 - - 1	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-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279	0336 0337 0341 0362 0360 0358 0354 0363	- 1 - - 1	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-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291	0336 0337 0341 0362 0360 0358 0354 0363	- 1 - - 1	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-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130292 CP-130291 CP-130291	0336 0337 0341 0362 0360 0358 0354 0363 0348	- 1 - - 1 - 2	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-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130292 CP-130292 CP-130380 CP-130291 CP-130297 CP-130374	0336 0337 0341 0362 0360 0358 0354 0363 0348	- 1 - - 1 - 2	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-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130292 CP-130297 CP-130380 CP-130297 CP-130374 CP-130374 CP-130295	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344	- 1 - - 1 - 2	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-130026 CP-130026 CP-130156 CP-130298 CP-130298 CP-130279 CP-130279 CP-130291 CP-130297 CP-130374 CP-130295 CP-130378	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344	- 1 - - 1 - 2 1 1 - 1	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	CT#59	CP-130026 CP-130026 CP-130156 CP-130298 CP-130292 CP-130279 CP-130380 CP-130297 CP-130374 CP-130378 CP-130378 CP-130378 CP-130454	0336 0337 0341 0362 0360 0358 0354 0348 0347 0345 0344 0349 0364	- 1 - - 1 - 2 1 1 - 1	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-130026 CP-130026 CP-130156 CP-130298 CP-130298 CP-130279 CP-130279 CP-130291 CP-130297 CP-130374 CP-130295 CP-130378	0336 0337 0341 0362 0360 0358 0354 0348 0347 0345 0344 0349 0364	- 1 - - 1 - 2 1 1 - 1	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-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130292 CP-130279 CP-130380 CP-130297 CP-130374 CP-130374 CP-130378 CP-130454 CP-130461	0336 0337 0341 0362 0360 0358 0354 0348 0347 0345 0344 0349 0364	- 1 - - 1 - 2 1 1 - 1	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 12.1.0
2013-06 2013-06 2013-09 2013-09	CT#59 CT#60	CP-130026 CP-130026 CP-130156 CP-130298 CP-130292 CP-130279 CP-130297 CP-130297 CP-130297 CP-130374 CP-130295 CP-130378 CP-130460 CP-130460	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0366 0368	- 1 - - 1 - 2 1 1 - 1	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 12.1.0	12.0.0 12.1.0 12.2.0
2013-06 2013-06 2013-09	CT#59 CT#60	CP-130026 CP-130026 CP-130030 CP-130288 CP-130298 CP-130292 CP-130291 CP-130291 CP-130297 CP-130374 CP-130374 CP-130378 CP-130461 CP-130460 CP-130624	0336 0337 0341 0362 0360 0358 0354 0343 0347 0345 0344 0349 0366 0368	- 1 - - 1 - 2 1 1 1 - 1 2 - - 1	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 New AVP for optimized LCS procedure for combined MME/SGSN	11.6.0	12.0.0 12.1.0 12.2.0
2013-03 2013-06 2013-09 2013-09	CT#59 CT#60	CP-130026 CP-130026 CP-130030 CP-130288 CP-130298 CP-130292 CP-130291 CP-130291 CP-130297 CP-130374 CP-130374 CP-130378 CP-130461 CP-130460 CP-130624 CP-130631	0336 0337 0341 0362 0360 0358 0354 0343 0345 0344 0349 0364 0366 0368	- 1 - - 1 - 2 1 1 1 - 1 2 - - 1	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 New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion	11.6.0 12.0.0 12.1.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-03 2013-06 2013-09 2013-09	CT#59 CT#60	CP-130026 CP-130026 CP-130030 CP-130288 CP-130298 CP-130292 CP-130297 CP-130291 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130460 CP-130624 CP-130631 CP-130800	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0366 0368	- 1 1 - 2 1 1 1 1 1 2 1	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 New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338	11.6.0 12.0.0 12.1.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-03 2013-06 2013-09 2013-09	CT#59 CT#60	CP-130026 CP-130026 CP-130030 CP-130288 CP-130298 CP-130292 CP-130297 CP-130374 CP-130295 CP-130374 CP-130454 CP-130460 CP-130600 CP-130600 CP-130800 CP-130800	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0366 0368 0369 0370 0371	- 1 1 - 2 1 1 1 1 1 2 1	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 New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 32.299	11.6.0 12.0.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-03 2013-06 2013-09 2013-09	CT#59 CT#60	CP-130026 CP-130026 CP-130156 CP-130298 CP-130292 CP-130297 CP-130297 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130460 CP-130606 CP-130600 CP-130600	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0364 0366 0368 0370 0371 0376 0378	- 1 1 - 2 1 1 1 1 1 2 1	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 New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 32.299 Allocation of Diameter codes for 29.212	11.6.0 12.0.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-03 2013-06 2013-09 2013-09 2013-12	CT#59 CT#60 CT#61	CP-130026 CP-130026 CP-130030 CP-130298 CP-130292 CP-130297 CP-130297 CP-130374 CP-130295 CP-130374 CP-130454 CP-130460 CP-130606 CP-130605 CP-130605	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0364 0366 0368 0370 0371 0376 0378	- 1 - 1 - 1 1 1 1 1 1 1 1	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 New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 32.299 Allocation of Diameter codes for 29.212 SGSN CAMEL Subscription Indication	11.6.0 12.0.0 12.1.0 12.2.0	12.0.0 12.1.0 12.2.0 12.2.1 12.3.0
2013-03 2013-06 2013-09 2013-09	CT#59 CT#60	CP-130026 CP-130026 CP-130156 CP-130298 CP-130292 CP-130297 CP-130297 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130460 CP-130606 CP-130600 CP-130600	0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0366 0368 0369 0370 0371 0376 0378 0380	- 1 - 1 - 1 1 1 1 1 1 1 1	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 New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 32.299 Allocation of Diameter codes for 29.212	11.6.0 12.0.0 12.1.0 12.2.0	12.0.0 12.1.0 12.2.0 12.2.1 12.3.0

2014-06	CT#64	CP-140211	0385	1	Protocol enhancements to indicate support of device recall and	12.4.0	12.5.0
		CP-140251	0402	1	replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic	+	ŀ
		CP-140257		1	SS-Status AVP Definition	1	ŀ
		CP-140252		-	Definition of AVPs for Network Location in TWLAN		
	ĺ	CP-140236	0399	-	TWAN-BSSID AVP re-naming		Ì
		CP-140247		-	New AVPs for Trusted WLAN access		
		CP-140231			Adding Codes for 29.214		
2014-09	CT#65	CP-140515			T-GRUU restoration	12.5.0	12.6.0
		CP-140517			MB2-C codes	4	ļ
		CP-140505 CP-140506			New AVPs for Trusted WLAN access P-CSCF Restoration indication	-	ŀ
		CP-140506			Closing TS 29.234 and reused AVP in TS 29.273	+	ŀ
	ł	CP-140513		-	Identification of the HSS	-	ł
		0. 1.00.10	0.00		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
	000	0	0430	-	New Diagnostic-Info AVP for MBMS restoration	1 -10.0	
			0410	1	WLCP key for WLCP signalling protection		ľ
	Ì		0411	-	Reset-ID .		ĺ
			0416	1	Code definitions for 32.299		
			0428	-	Removal of I-WLAN AVPs		
			0429	1	Reference correction	4	ļ
			0433	-	Code allocation for 29.212	4	ļ
			0418		MDT PLMN List	4	Į.
			0422		Codes Allocation for PC2 Protocol	4	-
			0423		Codes Allocation for PC4a Protoco	4	ŀ
			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	-	ł
			0434	l'	Information Retrieval		
			0425	-	Corrections of the type of some AVPs	1	ľ
			0426		OFR-Flags AVP code		ľ
			0427	1	P-CSCF Restoration mechanism new error		ľ
2015-03	CT#67	CP-150015	0447	-	Renaming of Location-Type AVP	12.7.0	12.8.0
			0437		Location reporting in emergency 1xSRVCC		
			0435		AVP codes for GCSE MB2-C		
			0442		New AVPs and range of transient failure result codes in TS 29.214		
			0438	1	Allocation of code for Authorized-Discovery-Range AVP (TS		
			0.4.40	_	29.344)		
	}		0440	-	Location Update Trigger AVP codes allocation for Validity related AVPs for TS 29.345	-	ł
			0441	ı	Allocation of codes for the Integrity Checks. Aspect AVPs	-	ł
2015-03	CT#67	CP-150039		1	Diameter Application Identifier for Np protocol	12.8.0	13.0.0
2015-06	CT#68	CP-150257			AVP code allocation for Match Refresh Timer AVP in TS 29.345	13.0.0	
_0.000	000	CP-150247		-	Wrong CR implementation of CR 0416r1		
		CP-150249		1	AVP code allocation for 32.299		İ
	ĺ	CP-150263	0452	1	AVP codes for Access Restriction Data per PLMN		ĺ
	<u> </u>	CP-150372	0461	_	IP-SM-GW-Realm	<u></u>	
2015-09	CT#69	CP-150454		<u> </u>	Subscription data for extended buffering at the SGW	13.1.0	13.2.0
		CP-150442		-	Overlapping transaction over S6b	_	Į
		CP-150453			Addition of IMSI Group Id AVP definition	1	
		CP-150449			Addition of CP parameter AVP definition	4	ļ
		CP-150431			AVP codes for TS 29.212	4	ļ
0045 :-	0	CP-150456		3	AVP definition for S6t	46.5.	40 -
2015-12	CT#70	CP-150761		-	Addition of MBMS-Cell-List AVP	13.2.0	13.3.0
		CP-150778			S6t Application ID and Command Codes	4	ŀ
		CP-150778			Bitmask to inform the SCEF of the Monitoring capabilities	4	ŀ
		CP-150778			AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-	+	
		CP-150778	0491		Deletion data types		
		CP-150778	0494	2	Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE)	1	
		CP-150778	0501	1	Definition of AVP SCEF-ID	†	ľ
	1	CP-150778			Service result per Event configuration	†	ľ
		CP-150770			Emergency PDN connection over untrusted WLAN access	†	
		CP-150776			EPC-MT-LR and PS-MT-LR procedure for UEs transiently not	1	
		15. 155770			reachable due to power saving		
		CP-150776	0497	1	Mobile Terminating SMS handling for extended Idle mode DRX	1	ĺ
		CP-150776			Mobile Terminating SMS handling for extended Idle mode DRX –	1	ĺ
					Additional Option		
		1	0.433	2	Commands and codes for Np protocol	7	1
	ĺ	CP-150777					Į.
		CP-150777 CP-150772 CP-150772	0479	1	Definition of ProSe-Metadata-Index-Mask Addition of AVPs and result-codes		

ı	1	IOD 450770	OFOC	1	Addition of AVD used in moteh report are adding for a DesCo. For CT.	Ì	İ
		CP-150772		-	Addition of AVP used in match report procedure for eProSe-Ext-CT Allowed WAF and/or WWSF Identities		
	}	CP-150754		1			}
ļ	}	CP-150773		-	Add the default access type to 3GPP specific AVP		ļ
	ļ	CP-150781		1	AVP code allocation for "UE Usage Type"		l Y
	ļ	CP-150755		-	Metadata in Match-Report		ľ
	ļ	CP-150755		-	New Group AVP for ProSe direct discovery procedures		
		CP-150771		1	Definition of AVP for AESE-CT		ļ
	1	CP-150771		1	Command codes and AVP range for TS 29.154 and TS 29.153		1
		CP-150776		1	AVP codes for Indoor Positioning support in SLg/Lgd		
2016-03	CT#71	CP-160041		-	Application ID for St	13.3.0	13.4.0
	ļ	CP-160041		1	Correction on TS numbers		ļ
		CP-160041		-	AVPs for the Rx Diameter application		ļ
		CP-160041			AVP code reservation for 32.299		ļ
		CP-160041			Codes for 29.212		
	1	CP-160029	0505	3	New AVP assignment for MONTE		
		CP-160029	0509	-	Change of type of Monitoring-Duration AVP to represent an		
	1				absolute time		
	1	CP-160035	0507	-	Remove the default access AVP		
		CP-160035	0508	-	Specific AVP codes for NBIFOM		
		CP-160030	0511	-	Alert procedure from MME/SGSN to SMS-GMSC for MT SMS to		
					UE using eDRX		
		CP-160037	0512	-	ePDG retrieval of WLAN Location Information		
	ĺ	CP-160033	0513	2	Definition of AVP Authorization of NIDD		ĺ
	ĺ	CP-160033			New PDN-Type for Cellular IoT		ĺ
	İ	CP-160036	0517	1	Monitoring update and Reporting of update result		
İ	Ì	CP-160036			Allocation of new Diameter Application ID and commands code for		
					PC2 protocol		
2016-06	CT#72	CP-160225	0544	2	SCEF Realm	13.4.0	13.5.0
2016-06	CT#72	CP-160225		1	Cleanup up on MONTE AVP's	13.4.0	
2016-06	CT#72	CP-160228		1	NIDD authorisation update	13.4.0	
2016-06	CT#72	CP-160228		-	IANA Command Code Registration	13.4.0	
2016-06	CT#72	CP-160228		1	CloT new commands and Diameter error	13.4.0	
2016-06	CT#72	CP-160228		2	Serving PLMN Rate Control	13.4.0	
2016-06	CT#72	CP-160228			New AVP for APN Rate Control	13.4.0	
2016-06	CT#72	CP-160227		1	IANA assigned application Id and command code values	13.4.0	
2016-06	CT#72	CP-160227			Allocation of AVP codes and Experimental Result codes for	13.4.0	
20.000	01,112	0. 100227	002		Diameter Data Management application	10.1.0	10.0.0
2016-06	CT#72	CP-160236	0525	1	Command Codes for 29.212	13.4.0	13 5 0
2016-06	CT#72	CP-160236		Ŀ	AVP code range 3900-3999	13.4.0	
2016-06	CT#72	CP-160236		1	New AVPs in TS 29.214	13.4.0	
2016-06	CT#72	CP-160236		Ŀ	AVP codes for 29.212	13.4.0	
2016-06	CT#72	CP-160232		2	AVP Codes for 29.343	13.4.0	
2016-06	CT#72	CP-160232			Assignment of application ID and command code for PC2 reference		
2010 00	01#12	01 100232	0323	'	point	13.4.0	13.3.0
2016-06	CT#72	CP-160232	0532	1	Addition of new AVPs for ProSe direct discovery security and open	13.4.0	1350
2010-00	01#12	C1 - 100232	0332	1	ProSe direct discovery with application-controlled extension	13.4.0	13.3.0
2016-06	CT#72	CP-160232	0530	L	Reserved Experimental Result Codes for TS 29.343	13.4.0	1350
2016-06	CT#72	CP-160233		_	Renaming of Validity-Time AVP	13.4.0	
2016-06	CT#72	CP-160233		1	New AVPs allocated for 29.153 and 29.154		
				1		13.4.0	
2016-06	CT#72	CP-160231		1	3GPP specific AVP for NBIFOM	13.4.0	
2016-09	CT#73	CP-160423		1	Missing AVP codes and Experimental-Result codes for T6a	13.5.0	
2016-09	CT#73	CP-160419		1	AVP codes for 32.299	13.5.0	
2016-09	CT#73	CP-160419		1	AVP code for 29.214	13.5.0	
2016-09	CT#73	CP-160419		ļ	AVP code for 29.212	13.5.0	
2016-09	CT#73	CP-160424		1	ŭ i i	13.5.0	
2016-12	CT#74	CP-160650			AVP code alignment with 29.272	13.6.0	
2016-12	CT#74	CP-160653		1	Renaming of Emergency-Indication AVP	13.6.0	
2016-12	CT#74	CP-160660		-	S6t-HSS-Cause	13.6.0	
2017-03	CT#75	CP-170025		<u> -</u>	AVP codes for 32.299	13.7.0	
2017-03	CT#'75	CP-170052		-	Update of the name of MCPTT-User-Profile-Data AVP	13.7.0	
2017-06	CT#76	CP-171017	0608	<u> </u>	New AVPs in 29.272 for MBSFN MDT	13.8.0	13.9.0

History

	Document history							
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