ETSI TS 129 230 V13.5.0 (2016-08)



Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE;

> Diameter applications; 3GPP specific codes and identifiers (3GPP TS 29.230 version 13.5.0 Release 13)



Reference RTS/TSGC-0429230vd50 Keywords GSM,LTE,UMTS

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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	29.212 [19]
16777268	3GPP Zpn	29.213 [22]
16777272	3GPP S6b	29.273 [20]
16777291	3GPP SLh	
16777291	3GPP SGmb	29.173 [25] 29.061 [13]
16777302	3GPP Sy	29.219 [26]
16777303	3GPP Sd	29.212 [19]
16777308	3GPP S7a	29.272 [21]
16777309	3GPP Tsp 3GPP S6m	29.368 [27] 29.336 [28]
16777310		
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 value	Command name	Abbreviation	Specified in 3GPP TS
300	User-Authorization-Request/-Answer	UAR/UAA	5511 15
301	Server-Assignment-Request/-Answer	SAR/SAA	
302	Location-Info-Request/-Answer	LIR/LIA	
303	Multimedia-Auth-Request/-Answer	MAR/MAA	29.229 [2]
304	Registration-Termination-Request/-	RTR/RTA	
	Answer		
305	Push-Profile-Request/-Answer	PPR/PPA	
306	User-Data-Request/-Answer	UDR/UDA	
307	Profile-Update-Request/-Answer	PUR/PUA	29.329 [4]
308	Subscribe-Notifications-Request/-Answer	SNR/SNA	29.329 [4]
309	Push-Notification-Request/-Answer	PNR/PNA	
310	Boostrapping-Info-Request/Answer	BIR/BIA	29.109 [7]
311	Message-Process-Request/Answer	MPR/MPA	29.140 [16]
312	GBAPush-Info-Request/Answer	GPR/GPI	29.109 [7]

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
316	Update-Location-Request/Answer	ULR/ULA	
317	Cancel-Location-Request/Answer	CLR/CLA	
318	Authentication- Information -	AIR/AIA	
	Request/Answer		
319	Insert Subscriber Data-Request/Answer	IDR/IDA	20 272 [24]
320	Delete-Subscriber-Data-Request/Answer	DSR/DSA	29.272 [21]
321	Purge-UE-Request/Answer	PUR/PUA	
322	Reset-Request/Answer	RSR/RSA	
323	Notify-Request/Answer	NOR/NOA	
324	ME-Identity-Check-Request/Answer	ECR/ECA	

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
8388620	Provide-Location-Request/Answer	PLR/PLA	
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	
8388731	TSSF-Notification-Request/Answer	TNR/TNA	29.212 [19]
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]
8388639	Device-Action-Request/Answer	DAR/DAA	
8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]
8388718	Configuration-Information- Request/Answer	CIR/CIA	
8388719	Reporting-Information- Request/Answer	RIR/RIA	29.336 [28]
8388726	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 Request/Answer	OFR/OFA	
8388646	MT-Forward-Short-Message Request/Answer	TFR/TFA	
8388647	Send-Routing-Info-for-SM- Request/Answer	SRR/SRA	29.338 [30]
8388648	Alert-Service-Centre-Request/Answer	ALR/ALA	
8388649	Report-SM-Delivery-Status- Request/Answer	RDR/RDA	
8388656	Trigger-Establishment-Request/Answer	TER/TEA	29.215 [30]
8388662	GCS-Action-Request/Answer	GAR/GAA	
8388663	GCS-Notification-Request/Answer	GNR/GNA	29.468 [31]
8388664	ProSe-Subscriber-Information- Request/Answer	PIR/PIA	
8388665	Update-ProSe-Subscriber-Data- Request/Answer	UPR/UPA	
8388666	ProSe-Notify-Request/Answer	PNR/PNA	29.344 [33]
8388713	ProSe-Initial-Location-Information- Request/Answer	PSR/PSA	
8388668	ProSe-Authorization-Request/Answer	PAR/PAA	
8388669	ProSe-Discovery-Request/Answer	PDR/PDA	29.345 [34]

8388670	ProSe-Match-Request/Answer	PMR/PMA	
8388671	ProSe-Match-Report-Info- Request/Answer	PIR/PIA	_
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	-
8388674	ProSe-Alert-Request/Answer	ALR/ALA	
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	
8388676	ProXimity-Action-Request/Answer	PXR/PXA	
8388727	ProXimity-Application-Request/Answer	XAR/XAA	29.343 [32]
8388720	Non-Aggregated-RUCI-Report- Request/Answer	NRR/NRA	
8388721	Aggregated-RUCI-Report- Request/Answer	ARR/ARA	29.217 [35]
8388722	Modify-Uecontext-Request/Answer	MUR/MUA	
8388724	Network-Status-Request/Answer	NSR/NSA	
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]
8388734	MT-Data-Request/Answer	TDR/TDA	1

6 Vendor identifier

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

6.1 3GPP"s vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code		Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
	3GPP-WLAN-QoS-Filter-Support	OctetString	
	The AVP codes from 1 to 255 are reserved for backwards compatites (See TS 29.061 [13] and TS 29.234 [6])	ibility with 3GPP RADIUS Ve	ndor Specific
	The AVP codes from 256 to 299 are reserved for future use.		
	Authentication-Method	Enumerated	
301	Authentication-Information-SIM	OctetString	
302	Authorization -Information-SIM	OctetString	
303	WLAN-User-Data	Grouped	
304	Charging-Data	Grouped	
	WLAN-Access	Enumerated	
306	WLAN- 3GPP-IP-Access	Enumerated	
	APN-Authorized	Grouped	
308	APN-Id	•	
	APN-Barring-Type	Enumerated	20 224 [6]
	WLAN-Direct-IP-Access	Enumerated	29.234 [6]
	Session-Request-Type	Enumerated	1
312	Routing-Policy	IPFilterRule	
	Max-Requested-Bandwidth	OctetString	
314	Charging-Characteristics	Integer	
	Charging-Nodes	Grouped	
316	Primary-OCS-Charging-Function-Name	DiameterIdentity	
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
	3GPP-AAA-Server-Name	DiameterIdentity	
319	Maximum-Number-Accesses	Unsigned32	
Note	: The AVP codes from 320 to 399 are reserved for TS 29.234		
	2: The 3GPP-AAA-Server-Name definition is moved to TS 29.273		
	GBA-UserSecSettings	OctetString	
	Transaction-Identifier	OctetString	
	NAF-Hostname GAA-Service-Identifier	OctetString OctetString	
	Key-ExpiryTime	Time	+
405	ME-Key-Material	OctetString	1
406	UICC-Key-Material	OctetString	
407	GBA_U-Awareness-Indicator	Enumerated	
408	BootstrapInfoCreationTime	Time	
	GUSS-Timestamp	Time	20 400 [7]
	GBA-Type UE-Id	Enumerated OctetString	29.109 [7]
412	UE-Id-Type	Enumerated	1
413	UICC-App-Label	OctetString	1
414	UICC-ME	Enumerated]
	Requested-Key-Lifetime	Time	1
	Private-Identity-Request	Enumerated	4
417	GBA-Push-Info NAF-SA-Identifier	OctetString OctetString	-
	NAF-SA-identifier Security-Feature-Request	OctetString	+
420	Security-Feature-Response	OctetString	1
	The AVP codes from 421 to 499 are reserved for TS 29.109	Coloroning	1
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	1
	Access-Network-Charging-Identifier	Grouped	1
	Access-Network-Charging-Identifier-Value	OctetString	29.209 [8],
	AF-Application-Identifier	OctetString	29.211 [17] ,
	AF-Charging-Identifier	OctetString	29.214 [18]
	Authorization-Token	OctetString	1
	Flow-Description	IPFilterRule	1
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	Flow-Grouping	Grouped	
	Flow-Number	Unsigned32	
	Flows	Grouped	
	Flow-Status	Enumerated	
	Flow-Usage	Enumerated	
	Specific-Action	Enumerated	
	Max-Requested-Bandwidth	Unsigned32	
	Max-Requested-Bandwidth-DL	Unsigned32	
	Max-Requested-Bandwidth-UL	Unsigned32	
	Media-Component-Description	Grouped	
	Media-Component-Number	Unsigned32	
519	Media-Sub-Component AVP	Grouped	
520	Media-Type	Enumerated	
521	RR-Bandwidth	Unsigned32	
522	RS-Bandwidth	Unsigned32	
523	SIP-Forking-Indication	Enumerated	
524	Codec-Data	OctetString	
525	Service-URN	OctetString	
	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	
	Min-Requested-Bandwidth-UL	Unsigned32	
	Required-Access-Info	Enumerated	
	IP-Domain-Id	OctetString	
	GCS-Identifier	OctetString	
	Sharing-Key-DL	Unsigned32	
		Unsigned32	
	Sharing-Key-UL	Ü	
	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	
548	Service-Authorization-Info	Unsigned32	
	The AVP codes from 549 to 599 are reserved for TS 29.209, TS 29.20		
	Visited-Network-Identifier	OctetString	
	Public-Identity	UTF8String	
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	
610	SIP-Authorization	OctetString	
611	SIP-Authentication-Context	OctetString	29.229 [2]
	SIP-Auth-Data-Item	Grouped	
	SIP-Item-Number	Unsigned32	
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
	Reason-Info	UTF8String	
	Charging-Information	Grouped	
	Primary-Event-Charging-Function-Name	DiameterURI	
	Secondary-Event-Charging-Function-Name	DiameterURI	
	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
<u> </u>	cotonically charging concolon random ranno	Diamoloror	

622	Hoor Authorization Type	Course rated	
	User-Authorization-Type User-Data-Already-Available	Enumerated Enumerated	
	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
	Supported-Applications	Grouped	
	Associated-Identities	Grouped	
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
	SCSCF-Restoration-Info	Grouped	
640		OctetString	
	Contact	OctetString	
	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	
	Record-Route	OctetString	
	Associated-Registered-Identities	Grouped	
	Multiple-Registration-Indication	Enumerated	
	Restoration-Info	Grouped	
	Session-Priority	Enumerated	
651	Identity-with-Emergency-Registration	Grouped	
652	Priviledged-Sender-Indication	Enumerated	
653	LIA-Flags	Unsigned32	
654	Initial-CSeq-Sequence-Number	Unsigned32	
655	SAR-Flags	Unsigned32	
	Allowed-WAF-WWSF-Identities	Grouped	
	WebRTC-Authentication-Function-Name	UTF8String	
	WebRTC-Web-Server-Function-Name	UTF8String	
	The AVP codes from 659 to 699 are reserved for TS 29.229.		
	User-Identity	Grouped	
	MSISDN	OctetString	
	User-Data	OctetString	
	Data-Reference	Enumerated	
	Service-Indication	OctetString	
	Subs-Req-Type	Enumerated	
	Requested-Domain	Enumerated	
	Current-Location	Enumerated	
	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	29.329 [4]
	One-Time-Notification	Enumerated	20.020 [4]
	Requested-Nodes	Unsigned32	
	Serving-Node-Indication	Enumerated	
	Repository-Data-ID	Grouped	
	Sequence-Number Pro paging Supported	Unsigned32	
	Pre-paging-Supported Local-Time-Zone-Indication	Enumerated Enumerated	
	UDR-Flags	Unsigned32	
	Call-Reference-Info	Grouped	
	Call-Reference-Number	OctetString	
	AS-Number The AVD codes from 723 to 700 are recovered for TS 20 330	OctetString	
	The AVP codes from 723 to 799 are reserved for TS 29.329.		
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
	Event-Type	Grouped	00 000 :=:
	SIP-Method Event	UTF8String	32.299 [5]
		UTF8String	

826 Content-Type	UTF8String
827 Content-Length	Unsigned32
828 Content-Disposition	UTF8String
829 Role-of-Node	Enumerated
830 User-Session-Id	UTF8String
831 Calling-Party-Address	UTF8String
832 Called-Party-Address	UTF8String
833 Time-Stamps	Grouped
834 SIP-Request-Timestamp	Time
835 SIP-Response-Timestamp	Time
836 Application-Server	UTF8String
837 Application-provided-called-party-address	UTF8String
838 Inter-Operator-Identifier	Grouped
839 Originating-IOI	UTF8String
840 Terminating-IOI	UTF8String
841 IMS-Charging-Identifier	UTF8String
842 SDP-Session-Description	UTF8String
843 SDP-Media-Component	Grouped
844 SDP-Media-Name	UTF8String
845 SDP-Media-Description	UTF8String
846 CG-Address	Address
847 GGSN-Address	Address
848 Served-Party-IP-Address	Address
849 Authorized-QoS	UTF8String
850 Application-Server-Information	Grouped
851 Trunk-Group-Id	Grouped
852 Incoming-Trunk-Group-Id	UTF8String
853 Outgoing-Trunk-Group-Id	UTF8String
854 Bearer-Service	OctetString
855 Service-Id	UTF8String
856 Associated-URI	UTF8String
857 Charged-Party	UTF8String
858 PoC-Controlling-Address	UTF8String
859 PoC-Group-Name	UTF8String
860 Cause	Grouped
861 Cause-Code	Integer32
862 Node-Functionality	Enumerated
863 Service-Specific-Data	UTF8String
864 Originator	Enumerated
865 PS-Furnish-Charging-Information	Grouped
866 PS-Free-Format-Data	OctetString
867 PS-Append-Free-Format-Data	Enumerated
868 Time-Quota-Threshold	Unsigned32
869 Volume-Quota-Threshold	Unsigned32
870 Trigger-Type	Enumerated
871 Quota-Holding-Time	Unsigned32
871 Quota-Holding-Time 872 Reporting-Reason	Enumerated
873 Service-Information	Grouped
874 PS-Information	Grouped
875 Reserved	
876 IMS-Information	Grouped
877 MMS-Information	Grouped
878 LCS-Information	Grouped
879 PoC-Information	Grouped
880 MBMS-Information	Grouped
881 Quota-Consumption-Time	Unsigned32
882 Media-Initiator-Flag	Enumerated
883 PoC-Server-Role	Enumerated
884 PoC-Session-Type	Enumerated
885 Number-Of-Participants	Unsigned32
886 Originator-Address	Grouped
887 Participants-Involved	UTF8String
888 Expires	Unsigned32
889 Message-Body	Grouped

	Reserved	-	
	Reserved	-	
	Reserved	-	
	Reserved	-	
	Reserved Reserved	-	
	Address-Data	- UTF8String	
	Address-Domain	Grouped	
	Address-Type	Enumerated	
033	Address-Type	Litameratea	
900	TMGI	OctectString	
	Required-MBMS-Bearer-Capabilities	UTF8String	
	MBMS-StartStop-Indication	Enumerated	
	MBMS-Service-Area	OctectString	
904	MBMS-Session-Duration	Unsigned32	
905	Alternative-APN	UTF8String	
906	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 MBMS-GGSN-IPv6-Address	UTF8String UTF8String	29.061 [13]
	MBMS-BMSC-SSM-IP-Address	UTF8String	29.001 [13]
	MBMS-BMSC-SSM-IPv6-Address	UTF8String	
	MBMS-Flow-Identifier	OctetString	
	CN-IP-Multicast-Distribution	Enumerated	
	MBMS-HC-Indicator	Enumerated	
	MBMS-Access-Indicator	Enumerated	
	MBMS-GW-SSM-IP-Address	OctetString	
925	MBMS-GW-SSM-IPv6-Address	OctetString	
926	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 Diagnostic-Info	Unsigned32	
	MBMS-Cell-List	Unsigned32 OctetString	
	The AVP codes from 935 to 999 are reserved for TS 29.061	Octerouning	
	Bearer-Usage	Enumerated	
	Charging-Rule-Install	Grouped	
	Charging-Rule-Remove	Grouped	
	Charging-Rule-Definition	Grouped	
	Charging-Rule-Base-Name	UTF8String	
	Charging-Rule-Name	OctetString	
	Event-Trigger	Enumerated	
1007	Metering-Method	Enumerated	
	Offline	Enumerated	
	Online	Enumerated	29.212 [19]
	Precedence	Unsigned32	
	Reporting-Level	Enumerated	
	TFT-Filter	IPFilterRule	
	TFT-Packet-Filter-Information	Grouped	
	ToS-Traffic-Class	OctetString	
	QoS-Information	Grouped	
	Charging-Rule-Report	Grouped	
	PCC-Rule-Status	Enumerated	
1020	Bearer-Identifier	OctetString	

1021 Bearer-Operation	Enumerated
1022 Access-Network-Charging-Identifier-Gx	Grouped
1023 Bearer-Control-Mode	Enumerated
1024 Network-Request-Support	Enumerated
1025 Guaranteed-Bitrate-DL	Unsigned32
1026 Guaranteed-Bitrate-UL	Unsigned32
1027 IP-CAN-Type	Enumerated
1028 QoS-Class-Identifier	Enumerated
1029 QoS-Negotiation	Enumerated
1030 QoS-Upgrade	Enumerated
1031 Rule-Failure-Code	Enumerated
1032 RAT-Type	Enumerated
1033 Event-Report-Indication	Grouped
1034 Allocation-Retention-Priority	Grouped
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	
1045 Session-Release-Cause	Enumerated
	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-Definition	Grouped
1077 Routing-Rule-Identifier	OctetString
1077 Routing-Rule-Identifier	Grouped
1079 Routing-IP-Address	Address
1080 Flow-Direction	Enumerated
1081 Routing-Rule-Install	Grouped
1082 Credit-Management-Status	Unsigned32
1085 Redirect-Information	Grouped
1086 Redirect- Support	Enumerated
1087 TDF-Information	Grouped

	TDF-Application-Identifier	OctetString	
	TDF-Destination-Host	DiameterIdentity	
	TDF-Destination-Realm	DiameterIdentity	
	TDF-IP-address	Address	
	ADC-Rule-Install	Grouped	
	ADC-Rule-Remove	Grouped	
	ADC-Rule-Definition ADC-Rule-Base-Name	Grouped	
		UTF8String	
	ADC-Rule-Name ADC-Rule-Report	OctetString Grouped	
	Application-Detection-Information	Grouped	
	PS-to-CS-Session-Continuity	Enumerated	
	The AVP codes from 1083 to 1084 are reserved for TS 29.212	Enumerateu	
	Served-User-Identity	Groupe	
	VASP-ID	UTF8Str	
	VAS-ID	UTF8String	
	Trigger-Event	Enumerated	
	Sender-Address	UTF8String	
	Initial-Recipient-Address	Grouped	
	Result-Recipient-Address	Grouped	
	Sequence-Number	Unsigned32	
	Recipient-Address	UTF8String	
	Routeing-Address	UTF8String	29.140 [16]
	Originating-Interface	Enumerated	[]
	Delivery-Report	Enumerated	
	Read-Reply	Enumerated	
	Sender-Visibility	Enumerated	
	Service-Key	UTF8String	
	Billing-Information	UTF8String	
	Status	Grouped	
1117	Status-Code	UTF8String	
	Status-Text	UTF8String	
	The AVP codes from 1119 to 1199 are reserved for TS 29.140		T
	Domain-Name	UTF8String	
	Recipient-Address	Grouped	
	Submission-Time	Time	
	MM-Content-Type	Grouped	
	Type-Number	Enumerated	
	Additional-Type-Information	UTF8String	
	Content-Size	Unsigned32	
	Additional-Content-Information	Grouped	
	Addressee-Type	Enumerated	
	Priority Message-ID	Enumerated UTF8String	
	Message-Type	Enumerated	
	Message-Type Message-Size	Unsigned32	
	Message-Class	Grouped	
	Class-Identifier	Enumerated	
	Token-Text	UTF8String	
	Delivery-Report-Requested	Enumerated	32.299 [5]
	Adaptations	Enumerated	
	Applic-ID	UTF8String	
	Aux-Applic-Info	UTF8String	
	Content-Class	Enumerated	
	DRM-Content	Enumerated	
	Read-Reply-Report-Requested	Enumerated	
	Reply-Applic-ID	UTF8String	
	File-Repair-Supported	Enumerated	
	MBMS-User-Service-Type	Enumerated	
	Unit-Quota-Threshold	Unsigned32	
1227	PDP-Address	Address	
	SGSN-Address	Address	
	PoC-Session-Id	UTF8String	
	Deferred-Location-Even-Type	UTF8String	
14224	LCS-APN	UTF8String	

1323 C.SClient-Dated-By-MS			
1236 ICS-Client-Name	1232 LCS-Client-Id	Grouped	
1236 ICS-Client-Name	1233 LCS-Client-Dialed-By-MS	UTF8String	
1236 LCS-Diant-Name			
1236 LCS-Data-Coding-Scheme		<u> </u>	
1237 CS-Format-Indicator			
1239 LCS-Name-String		U1F8String	
1239 LCS-Requestor-Id Grouped 1240 LCS-Requestor-Id-String UTF8String 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OctolString 1243 Location-Estimate OctolString 1244 Location-Estimate OctolString 1244 Location-Type Enumerated 1245 Positioning-Data UTF8String 1246 Reserved	1237 LCS-Format-Indicator	Enumerated	
1239 LCS-Requestor-Id Grouped 1240 LCS-Requestor-Id-String UTF8String 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OctolString 1243 Location-Estimate OctolString 1244 Location-Estimate OctolString 1244 Location-Type Enumerated 1245 Positioning-Data UTF8String 1246 Reserved	1238 LCS-Name-String	UTF8String	
1240 LCS-Requestor-id-String			
1242 Location-Estimate CotelString Enumerated 1243 Location-Type Grouped 1245 Positioning-Data UTF8String 1246 Reserved Enumerated 1247 PDP-Context-Type Enumerated 1248 MMBox-Storage-Requested Enumerated 1249 Enumerated Enumerated 1249 Service-Specific-Info Grouped 1250 Called-Asserted-Identity UTF8String 1251 Requested-Party-Address UTF8String 1252 PoC-User-Role-Info UTF8String 1253 PoC-User-Role-Info UTF8String 1254 PoC-User-Role-Info UTF8String 1255 PoC-User-Role-Info UTF8String 1256 PoC-User-Role-Info UTF8String 1257 PoC-User-Role-Info UTF8String 1258 PoC-User-Role-Info UTF8String 1258 PoC-User-Role-Info UTF8String 1259 PoC-User-Role-Info UTF8String 1250 PoC-User-Role-Info UTF8String 1251 PoC-Charging-TimeStamp UTF8String 1252 PoC-User-Role-Info UTF8String 1253 Potential UTF8String UTF8String 1254 PoC-User-Role-Information UTF8String 1255 Participant-Access-Priority UTF8String 1256 Participant-Access-Priority UTF8String 1257 PoC-Change-Conditions UTF8String 1258 Participant-Group UTF8String 1269 PoC-Change-Time UTF8String 1260 Participant-Group UTF8String 1261 PoC-Change-Time UTF8String 1262 PoC-Change-Time UTF8String 1263 Access-Network-Information OctetString 1264 UTF8String UTF8String UTF8String 1265 Envelope-Start-Time UTF8String 1266 Envelope-Start-Time UTF8String 1276 PoC-Change-Time UTF8String 1277 UTF8-Correlation-Information Grouped 1277 UTF8-Correlation-Information Grouped 1277 UTF8-Correlation-Information Grouped 1277 UTF8-Correlation-Information UTF8String 1281 UTF8-String UTF8String 1281 UTF8-String UTF8-String 1282 UTF8-String UTF8-String 1283 UTF8-String UTF8-String 1293 UTF8-String UTF8-String 1294 UTF8-UTF8-UTF8 UTF8-			
1244 Location-Estimate-Type	1241 LCS-Client-Type	Enumerated	
1244 Location-Estimate-Type	1242 Location-Estimate	OctetString	
1244 Location-Type			
1246 Reserved			
1246 Reserved			
PDP-Context-Type		UTF8String	
1248 MMBox-Storage-Requested Enumerated 1249 Service-Specific-Info Grouped 1250 Called-Asserted-Identity UTF8String 1251 Requested-Party-Address UTF8String 1252 Poc-User-Role-Info-Units Grouped 1253 Poc-User-Role-Info-Units Enumerated 1255 Poc-User-Role-Info-Units Enumerated 1255 Talk-Burst-Exchange Grouped 1256 Service-Generic-Information Grouped 1257 Service-Specific-Type Unsigned32 1258 Event-Charging-TimeStamp Time 1259 Participant-Access-Priority Enumerated 1269 Participant-Access-Priority Enumerated 1260 Poc-Change-Time Time 1260 Poc-Change-Time Time 1261 Poc-Change-Gonditions Enumerated 1262 Poc-Change-Time Time 1263 Access-Network-Information OctetString 1264 Triager Grouped 1265 Bases-Time-Interval Unsigned32 1266 Envelope Envelope-End-Time Time 1268 Envelope-Reporting Enumerated 1269 Envelope-End-Time Time 1269 Envelope-Start-Time Time 1269 Envelope-Start-Time Grouped 1270 Time-Quota-Type Enumerated 1271 Time-Quota-Type Enumerated 1272 Early-Media-Description Grouped 1273 SDP-TimeStamps Grouped 1274 SDP-Ofter-Timestamp Time 1276 SDP-Answer-Timestamp Time 1276 SDP-Answer-Timestamp Time 1277 Grouped 1278 SDP-Answer-Timestamp Time 1279 Unsersation Grouped 1279 Unsersation Grouped 1279 Unsersation Grouped 1279 Unsersation Grouped 1279 Unsersation 1279 Unsersation Unsigned32 1288 Media-Description Grouped 1279 Unsersation Grouped 1279 Unsersation Grouped 1279 Unsersation Unsigned32 1288 Redexided-Talk-Bursts Unsigned32 1288 Redexided-Talk-Burst Unsigned32 1289 Talk-Burst-Volume Unsigned32 1280 Talk-Burst-Volume Unsigned32 1280 Talk-Burst-Volume Unsign	1246 Reserved	-	
1248 MMBox-Storage-Requested Enumerated 1249 Service-Specific-Info Grouped 1250 Called-Asserted-Identity UTF8String 1251 Requested-Party-Address UTF8String 1252 Poc-User-Role-Info-Units Grouped 1253 Poc-User-Role-Info-Units Enumerated 1255 Poc-User-Role-Info-Units Enumerated 1255 Talk-Burst-Exchange Grouped 1256 Service-Generic-Information Grouped 1257 Service-Specific-Type Unsigned32 1258 Event-Charging-TimeStamp Time 1259 Participant-Access-Priority Enumerated 1269 Participant-Access-Priority Enumerated 1260 Poc-Change-Time Time 1260 Poc-Change-Time Time 1261 Poc-Change-Gonditions Enumerated 1262 Poc-Change-Time Time 1263 Access-Network-Information OctetString 1264 Triager Grouped 1265 Bases-Time-Interval Unsigned32 1266 Envelope Envelope-End-Time Time 1268 Envelope-Reporting Enumerated 1269 Envelope-End-Time Time 1269 Envelope-Start-Time Time 1269 Envelope-Start-Time Grouped 1270 Time-Quota-Type Enumerated 1271 Time-Quota-Type Enumerated 1272 Early-Media-Description Grouped 1273 SDP-TimeStamps Grouped 1274 SDP-Ofter-Timestamp Time 1276 SDP-Answer-Timestamp Time 1276 SDP-Answer-Timestamp Time 1277 Grouped 1278 SDP-Answer-Timestamp Time 1279 Unsersation Grouped 1279 Unsersation Grouped 1279 Unsersation Grouped 1279 Unsersation Grouped 1279 Unsersation 1279 Unsersation Unsigned32 1288 Media-Description Grouped 1279 Unsersation Grouped 1279 Unsersation Grouped 1279 Unsersation Unsigned32 1288 Received-Talk-Burst Unsigned32 1289 Talk-Burst-Volume Unsigned32 1280 Talk-Burst-Volume Unsigned32 1280 Talk-Burst-Volume Unsigned32	1247 PDP-Context-Type	Enumerated	
1249 Service-Specific-Info			
1250 Called-Asserted-Identity			
1251 Requested-Party-Address			
1252 PoC-User-Role			
1252 PoC-User-Role	1251 Requested-Party-Address	UTF8String	
1253 PoC-User-Role-Info 1254 PoC-User-Role-info-Units Enumerated 1255 Talk-Burst-Exchange Grouped 1256 Service-Generic-Information Grouped 1256 Service-Specific-Type Unsigned32 1258 Event-Charging-TimeStamp Time 1259 Participant-Group Grouped 1260 Participant-Group Grouped 1261 PoC-Change-Tonup Grouped 1261 PoC-Change-Conditions Enumerated 1262 PoC-Change-Time Time 1263 Access-Network-Information OctelString 1264 Trigger Grouped 1265 Base-Time-Interval Unsigned32 1266 Envelope Grouped 1266 Envelope-End-Time Time 1268 Envelope-End-Time Time 1269 Envelope-Start-Time Time 1269 Envelope-Start-Time Time 1270 Time-Quota-Type Enumerated 1271 Time-Quota-Type Enumerated 1272 Early-Media-Description Grouped 1273 SDP-Timestamp Time 1274 SDP-Offer-Timestamp Time 1276 AF-Correlation-Information Grouped 1277 PoC-Session-Initiation-type Enumerated 1278 DSP-Answer-Timestamp Time 1276 AF-Correlation-Information Grouped 1279 User-Participating-Type Enumerated 1280 Miternate-Oharged-Party-Address Urf-SString 1281 Mis-Communication-Service-Identifier UTF8String 1282 Number-Of-Talk-Burst Unsigned32 1283 Number-Of-Talk-Burst-Time Unsigned32 1284 Talk-Burst-Time Unsigned32 1285 Received-Talk-Burst-Time Unsigned32 1286 Received-Talk-Burst-Time Unsigned32 1287 Talk-Burst-Volume Unsigned32 1288 Media-Initiator-Party UTF8String 1400 Subscription-Data Grouped 1401 Terminal-Information UTF8String 1403 Software-Version UTF8String Unsigned32		Ŭ	
1255 PoC-User-Role-infor-Units			
1255 Talk-Burst-Exchange			
1256 Service-Generic-Information			
1257 Service-Specific-Type			
1257 Service-Specific-Type	1256 Service-Generic-Information	Grouped	
1258 Event-Charging-TimeStamp			
1259 Participant-Access-Priority			
1260 Participant-Group			
1261 PoC-Change-Conditions			
1262 PoC-Change-Time Time 1263 Access-Network-Information OctetString Grouped 1265 Base-Time-Interval Unsigned32 Unsigned32 1266 Envelope Grouped 1267 Envelope-End-Time Time Time 1268 Envelope-Reporting Enumerated Envelope-Start-Time Time 1270 Time-Quota-Mechanism Grouped 1271 Time-Quota-Mechanism Grouped 1272 Early-Media-Description Grouped 1273 SDP-JimeStamps Grouped 1273 SDP-JimeStamps Grouped 1274 SDP-Offer-Timestamp Time 1276 AF-Correlation-Information Grouped 1277 PoC-Session-Initiation-type Enumerated Grouped 1278 AF-Correlation-Information Grouped 1279 User-Participating-Type Enumerated 1280 Alternate-Charged-Party-Address UTF8String UTF8String 1281 MS-Communication-Service-Identifier UTF8String 1282 Number-Of-Talk-Bursts Unsigned32 1283 Number-Of-Talk-Bursts Unsigned32 1284 Received-Talk-Burst-Volume Unsigned32 1285 Received-Talk-Burst-Volume Unsigned32 1286 Talk-Burst-Volume Unsigned32 1287 1288 Media-Initiator-Party UTF8String 1404 QoS-Subscribed UTF8String 1405 ULF-Flags Unsigned32 1405 ULF-Flags Unsigned32 1405 ULF-Flags Unsigned32 1406 UTF8String 1405 ULF-Flags Unsigned32 1406 UTF8String 1405 ULF-Flags Unsigned32 Unsigned32 Unsigned32 UTF8String 1405 ULF-Flags Unsigne	1260 Participant-Group	Grouped	
1262 PoC-Change-Time Time 1263 Access-Network-Information OctetString Grouped 1265 Base-Time-Interval Unsigned32 Unsigned32 1266 Envelope Grouped 1267 Envelope-End-Time Time Time 1268 Envelope-Reporting Enumerated Envelope-Start-Time Time 1270 Time-Quota-Mechanism Grouped 1271 Time-Quota-Mechanism Grouped 1272 Early-Media-Description Grouped 1273 SDP-JimeStamps Grouped 1273 SDP-JimeStamps Grouped 1274 SDP-Offer-Timestamp Time 1276 AF-Correlation-Information Grouped 1277 PoC-Session-Initiation-type Enumerated Grouped 1278 AF-Correlation-Information Grouped 1279 User-Participating-Type Enumerated 1280 Alternate-Charged-Party-Address UTF8String UTF8String 1281 MS-Communication-Service-Identifier UTF8String 1282 Number-Of-Talk-Bursts Unsigned32 1283 Number-Of-Talk-Bursts Unsigned32 1284 Received-Talk-Burst-Volume Unsigned32 1285 Received-Talk-Burst-Volume Unsigned32 1286 Talk-Burst-Volume Unsigned32 1287 1288 Media-Initiator-Party UTF8String 1404 QoS-Subscribed UTF8String 1405 ULF-Flags Unsigned32 1405 ULF-Flags Unsigned32 1405 ULF-Flags Unsigned32 1406 UTF8String 1405 ULF-Flags Unsigned32 1406 UTF8String 1405 ULF-Flags Unsigned32 Unsigned32 Unsigned32 UTF8String 1405 ULF-Flags Unsigne	1261 PoC-Change-Conditions	Enumerated	
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1400 Subscription-Data Grouped 1401 Terminal-Information Grouped 1402 IMEI UTF8String 1403 Software-Version UTF8String 1404 QoS-Subscribed UTF8String 1405 ULR-Flags Unsigned32		UTF8String	
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1403 Software-Version UTF8String 29.272 [21] 1404 QoS-Subscribed UTF8String 1405 ULR-Flags Unsigned32			
1404 QoS-SubscribedUTF8String1405 ULR-FlagsUnsigned32			
1405 ULR-Flags Unsigned32		UTF8String	29.272 [21]
1405 ULR-Flags Unsigned32	1404 QoS-Subscribed	UTF8Strina	
1400 JOLA-Flags Unsigned32			
	1400 JULA-Flags	unsigned32	

1407 Visited PLMN Id	OctetString	
1408 Requested-EUTRAN-Authentication-Info	Grouped	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped	
1410 Number-Of-Requested-Vectors	Unsigned32	
1411 Re-Synchronization-Info	OctetString Unsigned32	
1412 Immediate-Response-Preferred 1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	
1417 Network-Access-Mode	Enumerated	
1418 HPLMN-ODB	Enumerated	
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
424 Subscriber-Status	Enumerated	
425 Operator-Determined-Barring	Unsigned32	
426 Access-Restriction-Data	UTF8String	
427 APN-OI-Replacement	UTF8String	
428 All-APN-Configurations-Included-Indicator	Enumerated	
429 APN-Configuration-Profile	Grouped	
430 APN-Configuration	Grouped	
431 EPS-Subscribed-QoS-Profile	Grouped	
432 VPLMN-Dynamic-Address-Allowed	Enumerated	
433 STN-SR	OctetString	
434 Alert-Reason	Enumerated	
435 AMBR	Grouped	
436 CSG-Subscription-Data	Grouped	
437 CSG-ld	Unsigned32	
438 PDN-GW-Allocation-Type	Enumerated	
439 Expiration-Date	Time	
440 RAT-Frequency-Selection-Priority-ID	Unsigned32	
441 IDA-Flags	Unsigned32	
442 PUA-Flags	Unsigned32	
443 NOR-Flags	Unsigned32	
444 User-Id	UTF8String	
445 Equipment-Status	Enumerated	
446 Regional-Subscription-Zone-Code	OctetString	
447 RAND	OctetString	
448 XRES	OctetString	
449 AUTN	OctetString	
450 KASME	OctetString	
451 Reserved	- ^ dd====	
452 Trace-Collection-Entity	Address	
453 Kc	OctetString	
454 SRES	OctetString	
455 Reserved	- Enumerated	
456 PDN-Type	Enumerated	
457 Roaming-Restricted-Due-To-Unsupported-Feature 458 Trace-Data	Enumerated Grouped	
458 Trace-Data 459 Trace-Reference	OctetString	
460 Reserved		
460 Reserved 461 Reserved	-	
462 Trace-Depth	- Enumerated	
463 Trace-NE-Type-List	OctetString	
464 Trace-Interface-List	OctetString	
465 Trace-Event-List	OctetString	
466 OMC-Id	OctetString	
467 GPRS-Subscription-Data	Grouped	
468 Complete-Data-List-Included-Indicator	Enumerated	
1469 PDP-Context	Grouped	
1470 PDP-Type	OctetString	
1471 3GPP2-MEID	OctetString	
THE POST OF MILID	Octobiling	

1472 Specific-APN-Info			
1474 G.C.S.PrivayException	1472 Specific-APN-Info	Grouped	
1475 S.C. SerbivacyException	1473 LCS-Info	Grouped	
1476 SS-Code	1474 GMLC-Number	OctetString	
1476 SS-Code	1475 LCS-PrivacyException	Grouped	
1477 SS-Status			
1478 Notification-To-UE-Use			
1479 External-Client Grouped			
1480 GMLC-Restriction			
1481 GMLC-Restriction			
1482 PLMN-Client			
1483 Service-Type Grouped			
1485 MO-UR			
1486 Telsesrvice-List Grouped			
1496 Teleservice List			
1487 TS-Code			
1488 Call-Barring-Info		Grouped	
1499 ISGSN-Number	1487 TS-Code	Enumerated	
1490 IDR-Flags	1488 Call-Barring-Info	Grouped	
1490 IDR-Flags	1489 SGSN-Number	OctetString	
1491 ICS-Indicator			
Hass_Voice_Over-PS-Sessions-Supported		<u> </u>	
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions			
1494 Last-UE-Activity-Time			
1495 EPS-User-State			
1496 EPS-Location-Information Grouped 1497 MME-User-State Grouped 1498 GSN-User-State Enumerated 1499 User-State Enumerated 1500 Non-3GPP-User-Data Grouped 1501 Non-3GPP-User-Data Enumerated 1502 Non-3GPP-IP-Access Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF8String 1505 Trace-Info Grouped 1506 MIP-FA-RK OctetString 1507 MIP-FA-RK-SPI Unsigned32 1508 PPR-Flags Unsigned32 1509 WLAN-Identifier Grouped 1511 TWAN-Access-Info Grouped 1511 TWAN-Default-APN-Context-Id Unsigned32 1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved -			
1497 MME-User-State Grouped 1498 SGSN-User-State Grouped 1498 SGSN-User-State Enumerated			
1498 SGSN-User-State			
1499 User-State			
1500 Non-3GPP-User-Data Grouped			
1501 Non-3GPP-IP-Access	1499 User-State	Enumerated	
1501 Non-3GPP-IP-Access			
1501 Non-3GPP-IP-Access	1500 Non-3GPP-User-Data	Grouped	
1502 Non-3GPP-IP-Access-APN	1501 Non-3GPP-IP-Access		
1503 AN-Trusted			
1504 ANID			
1505 Trace-Info			
1506 MIP-FA-RK			
1507 MIP-FA-RK-SPI			
1508 PPR-Flags			
1509 WLAN-Identifier Grouped 1510 TWAN-Access-Info Grouped 1511 Access-Authorization-Flags Unsigned32 1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved -			
1510 TWAN-Access-Info Grouped 1511 Access-Authorization-Flags Unsigned32 1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved -	1508 PPR-Flags		
1511 Access-Authorization-Flags Unsigned32 1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved - 1514 Reserved - 1515 Reserved - 1516 Full-Network-Name OctetString 1517 Short-Network-Name OctetString 1518 AAA-Failure-Indication Unsigned32 1519 Transport-Access-Type Enumerated 1520 DER-Flags Unsigned32 1521 DEA-Flags Unsigned32 1522 RAR-Flags Unsigned32 1523 DER-S6b-Flags Unsigned32 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connectivity-Parameters Grouped 1528 TWAN-Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-UP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAS-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32			
1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved - 1514 Reserved - 1515 Reserved - 1516 Full-Network-Name OctetString 1517 Short-Network-Name OctetString 1518 AAA-Failure-Indication Unsigned32 1519 Transport-Access-Type Enumerated 1520 DER-Flags Unsigned32 1521 DEA-Flags Unsigned32 1522 RAR-Flags Unsigned32 1523 DER-S6b-Flags Unsigned32 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1533 TWAG-UP			
1513 Reserved - 1514 Reserved - 1515 Reserved - 1516 Full-Network-Name OctetString 1517 Short-Network-Name OctetString 1518 AAA-Failure-Indication Unsigned32 1519 Transport-Access-Type Enumerated 1520 DER-Flags Unsigned32 1521 DEA-Flags Unsigned32 1522 RAR-Flags Unsigned32 1523 DER-S6b-Flags Unsigned32 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address Ursigned32 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Bac		5	
1514 Reserved - 1515 Reserved - 1516 Full-Network-Name OctetString 1517 Short-Network-Name OctetString 1518 AAA-Failure-Indication Unsigned32 1519 Transport-Access-Type Enumerated 1520 DER-Flags Unsigned32 1521 DEA-Flags Unsigned32 1522 RAR-Flags Unsigned32 1523 DER-S6b-Flags UTF8String 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32	1512 TWAN-Default-APN-Context-Id	Unsigned32	
1515 Reserved - 1516 Full-Network-Name OctetString 1517 Short-Network-Name OctetString 1518 AAA-Failure-Indication Unsigned32 1519 Transport-Access-Type Enumerated 1520 DER-Flags Unsigned32 1521 DEA-Flags Unsigned32 1522 DER-S6b-Flags Unsigned32 1523 DER-S6b-Flags Unsigned32 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32	1513 Reserved	-	
1516 Full-Network-Name OctetString 1517 Short-Network-Name OctetString 1518 AAA-Failure-Indication Unsigned32 1519 Transport-Access-Type Enumerated 1520 DER-Flags Unsigned32 1521 DEA-Flags Unsigned32 1522 RAR-Flags Unsigned32 1523 DER-S6b-Flags Unsigned32 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32	1514 Reserved	-	
1516 Full-Network-Name OctetString 1517 Short-Network-Name OctetString 1518 AAA-Failure-Indication Unsigned32 1519 Transport-Access-Type Enumerated 1520 DER-Flags Unsigned32 1521 DEA-Flags Unsigned32 1522 RAR-Flags Unsigned32 1523 DER-S6b-Flags Unsigned32 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32	1515 Reserved	-	
1517 Short-Network-Name OctetString 1518 AAA-Failure-Indication Unsigned32 1519 Transport-Access-Type Enumerated 1520 DER-Flags Unsigned32 1521 DEA-Flags Unsigned32 1522 RAR-Flags Unsigned32 1523 DER-S6b-Flags Unsigned32 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1530 TWAR-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32		OctetString	
1518AAA-Failure-IndicationUnsigned321519Transport-Access-TypeEnumerated1520DER-FlagsUnsigned321521DEA-FlagsUnsigned321522RAR-FlagsUnsigned321523DER-S6b-FlagsUnsigned321524SSIDUTF8String1525HESSIDUTF8String1526Access-Network-InfoGrouped1527TWAN-Connection-ModeUnsigned321528TWAN-Connectivity-ParametersGrouped1529Connectivity-FlagsUnsigned321530TWAN-PCOOctetString1531TWAG-CP-AddressAddress1532TWAG-UP-AddressUTF8String1533TWAN-S2a-Failure-CauseUnsigned321534SM-Back-Off-TimerUnsigned32			
1519 Transport-Access-Type Enumerated 1520 DER-Flags Unsigned32 1521 DEA-Flags Unsigned32 1522 RAR-Flags Unsigned32 1523 DER-S6b-Flags Unsigned32 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32			29.273 [20]
1520 DER-Flags Unsigned32 1521 DEA-Flags Unsigned32 1522 RAR-Flags Unsigned32 1523 DER-S6b-Flags Unsigned32 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32			
1521 DEA-Flags Unsigned32 1522 RAR-Flags Unsigned32 1523 DER-S6b-Flags Unsigned32 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32			
1522 RAR-Flags Unsigned32 1523 DER-S6b-Flags Unsigned32 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32			
1523 DER-S6b-Flags Unsigned32 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32			
1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32			
1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32			
1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32			
1527 TWAN-Connection-ModeUnsigned321528 TWAN-Connectivity-ParametersGrouped1529 Connectivity-FlagsUnsigned321530 TWAN-PCOOctetString1531 TWAG-CP-AddressAddress1532 TWAG-UP-AddressUTF8String1533 TWAN-S2a-Failure-CauseUnsigned321534 SM-Back-Off-TimerUnsigned32			
1528TWAN-Connectivity-ParametersGrouped1529Connectivity-FlagsUnsigned321530TWAN-PCOOctetString1531TWAG-CP-AddressAddress1532TWAG-UP-AddressUTF8String1533TWAN-S2a-Failure-CauseUnsigned321534SM-Back-Off-TimerUnsigned32			
1528TWAN-Connectivity-ParametersGrouped1529Connectivity-FlagsUnsigned321530TWAN-PCOOctetString1531TWAG-CP-AddressAddress1532TWAG-UP-AddressUTF8String1533TWAN-S2a-Failure-CauseUnsigned321534SM-Back-Off-TimerUnsigned32		Unsigned32	
1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32	1528 TWAN-Connectivity-Parameters		
1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32			
1531 TWAG-CP-AddressAddress1532 TWAG-UP-AddressUTF8String1533 TWAN-S2a-Failure-CauseUnsigned321534 SM-Back-Off-TimerUnsigned32			
1532 TWAG-UP-AddressUTF8String1533 TWAN-S2a-Failure-CauseUnsigned321534 SM-Back-Off-TimerUnsigned32			
1533 TWAN-S2a-Failure-CauseUnsigned321534 SM-Back-Off-TimerUnsigned32			
1534 SM-Back-Off-Timer Unsigned32			
Toso WLCP-Key OctetString			
	TO30 JWLCP-Key	OctetString	

318 3GPP-AAA-Server-Name	DiameterIdentity	
1536 Origination-Time-Stamp	Unsigned64	
1537 Maximum-Wait-Time	Unsigned32	
1538 Emergency-Indication	Unsigned32	
1539 AAR-Flags	Unsigned32	
Note 1: The AVP codes from 1540 to 1599 are reserved for TS 29.273		
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP	TS 29.234 and is now defi	ned in 3GPP TS
29.273 from Rel-12.		
1600 MME-Location-Information	Grouped	
1601 SGSN-Location-Information	Grouped	
1602 E-UTRAN-Cell-Global-Identity	OctetString	
1603 Tracking-Area-Identity	OctetString	
1604 Cell-Global-Identity	OctetString	
1605 Routing-Area-Identity	OctetString	
1606 Location-Area-Identity	OctetString	
1607 Service-Area-Identity	OctetString	
1608 Geographical-Information	OctetString	
1609 Geodetic-Information	OctetString	
1610 Current-Location-Retrieved	Enumerated	
1611 Age-Of-Location-Information	Unsigned32	
1612 Active-APN	Grouped	
1613 SIPTO-Permission	Enumerated	
1614 Error-Diagnostic 1615 UE-SRVCC-Capability	Enumerated	
	Enumerated	
1616 MPS-Priority 1617 VPLMN-LIPA-Allowed	Unsigned32 Enumerated	
1618 LIPA-Permission	Enumerated	
1619 Subscribed-Periodic-RAU-TAU-Timer	Unsigned32	
1620 Ext-PDP-Type	OctetString	
1621 Ext-PDP-Address	Address	
1622 MDT-Configuration	Grouped	
1623 Job-Type	Enumerated	
1624 Area-Scope	Grouped	
1625 List-Of-Measurements	Unsigned32	
1626 Reporting-Trigger	Unsigned32	
1627 Report-Interval	Enumerated	
1628 Report-Amount	Enumerated	29.272 [21]
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 Peganyad	OctetString	
1644 Reserved 1645 MME-Number-for-MT-SMS	- OctetString	
1645 MME-Number-for-MT-SMS	Octetoring	
1647 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	
1654 Subscription-Data-Flags	Unsigned32	
1655 Measurement-Period-LTE	Enumerated	
1656 Measurement-Period-UMTS	Enumerated	

	,		
	Collection-Period-RRM-LTE	Enumerated	
	Collection-Period-RRM-UMTS	Enumerated	
	Positioning-Method	OctetString	
	Measurement-Quantity	OctetString	
	Event-Threshold-Event-1F	Integer32	
	Event-Threshold-Event-1I	Integer32	
	Restoration-Priority	Unsigned32	
	SGs-MME-Identity	UTF8String	
	SIPTO-Local-Network-Permission	Unsigned32	
	Coupled-Node-Diameter-ID	DiameterIdentity	
	WLAN-offloadability	Grouped	
	WLAN-offloadability-EUTRAN	Unsigned32	
	WLAN-offloadability-UTRAN	Unsigned32	
	Reset-ID	OctetString	
	MDT-Allowed-PLMN-Id	OctetString	
	Adjacent-PLMNs	Grouped	
	Adjacent-Access-Restriction-Data	Grouped	
	DL-Buffering-Suggested-Packet-Count	Integer32	
	IMSI-Group-Id	Grouped	
	Group-Service-Id	Unsigned32	
	Group-PLMN-Id	OctetString	
	Local-Group-Id	OctetString	
	AIR-Flags	Unsigned32	
	UE-Usage-Type	Unsigned32	
	Non-IP-PDN-Type-Indicator	Enumerated	
1682	Non-IP-Data-Delivery-Mechanism	Unsigned32	
	Additional-Context-Identifier	Unsigned32	
	SCEF-Realm	DiameterIdentity	
	Reserved	-	
	The AVP codes from 1686 to 1699 are reserved for TS 29.272.		
	SMS-Information	Grouped	
	Data-Coding-Scheme	Integer32	
	Destination-Interface	Grouped	
	Interface-Id	UTF8String	
	Interface-Port	UTF8String	
	Interface-Text	UTF8String	
	Interface-Type	Enumerated	
	SM-Message-Type	Enumerated	
	Originating-SCCP-Address	Address	
	Originator-Interface	Grouped	
	Recipient-SCCP-Address	Address	
	Reply-Path-Requested	Enumerated	
	SM-Discharge-Time	Time	
	SM-Protocol-ID	OctetString	
	SM-Status SM-Status	OctetString	
	SM-User-Data-Header	OctetString	
	SMS-Node	Enumerated	
	SMSC-Address	Address	32.299 [5]
	Client-Address	Address	
	Number-of-Messages-Sent	Unsigned32	
	Low-Balance-Indication	Enumerated	
	Remaining-Balance	Grouped	
	Refund-Information	OctetString	
	Carrier-Select-Routing-Information	UTF8String	
	Number-Portability-Routing-Information	UTF8String	
	PoC-Event-Type	Enumerated	
	Recipient-Info	Grouped	
	Originator-Received-Address	Grouped	
	Recipient-Received-Address	Grouped	
	SM-Service-Type	Enumerated	
	MMTel-Information	Grouped	
	MMTel-Sservice-Type	Unsigned32	
	Service-Mode	Unsigned32	
	Subscriber-Role	Enumerated	
2034	Number-Of-Diversions	Unsigned32	

2039 Diagnostics		Change-Condition	Integer32	1
2040 Service-Data-Container			Time	
2041 Start-Time				
2042 Stop-Time				
2043 Time-First-Usage				
Time Last-Usage				
2045 Time-Usage				
2046 Traffic-Data-Volumes				
2047 Serving-Node-Type				
2048 Supplementary-Service				
2049 Participant-Action-Type				-
2050 PDN-Connection-Charging-ID				-
2051 Dynamic-Address-Flag				
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 Rate-Element Grouped 2059 Rate-Element Grouped 2050 Tariff-Information Grouped 2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated 2069 Royamic-Address-Flag-Extension Enumerated 2006 Royamic-Address-Flag-Extension Enumerated 2007 Total-Number-Oservice-Type Enumerated 2008 Dynamic-Sesion-ID UTF8String 2102 Application-Sesion-ID Unsigned32 2104 Delivery-Status UTF8String 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved Unsigned32 2110 IM-Information Grouped 2111 IM-Information Grouped 2112 Number-Of-Messages-Successfully-Exploded Unsigned32 2113 Total-Number-Of-Messages-Successfully-Sent Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-ID UTF8String 2118 Charge-Reason-Code Enumerated 2200 Subsession-Decision-Info Grouped 2201 Subsession-Decision-Info Grouped 2202 Subsession-Decision-Info Enumerated 2203 Unsigned32 2204 Multiple-BERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 DCRF-Address DiameterIdentity				
2053 AoC-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 2050 Scale-Factor Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Node-Id UTF8String 2066 Node-Id UTF8String 2068 Dynamic-Address - Flag-Extension Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated 2071 Application-Server-ID UTF8String 2101 Application-Service-Type Enumerated 2103 Application-Service-Type Enumerated 2104 Application-Service-Type Enumerated 2105 Inceserved -				
2055 AoC-Information				
2056 AcC-Request-Type]
2005 Next-Tariff				
2058 Rate-Element	2056	Current-Tariff	Grouped	
2059 Scale-Factor				
Description				
Description				
December December				
2063 Local-Sequence-Number				
2064 Node-Id UTF8String Enumerated 2065 SGW-Change Enumerated Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address Address Address Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.				
2065 SGW-Change				
2066 Charging-Characteristic-Selection-Mode			•	
2068 SGW-Address				-
Dynamic-Address-Flag-Extension Enumerated	2067	Charging-Characteristic-Selection-Mode		-
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. 2100 reserved				
2100 reserved	12068	II)vnamic-Address-Flag-Extension	Enumerated	
2101 Application-Service-ID			Enumerated	
2102 Application-Service-Type	Note:	The AVP codes from 2069 to 2099 are reserved for TS 32.299.		
2103 Application-Session-ID	Note: 2100	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved	-	
2105 reserved -	Note: 2100 2101	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID	- UTF8String	
2106 reserved - 2107 reserved - 2108 reserved - 2109 reserved - 2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String 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-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity	Note: 2100 2101 2102	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Service-Type	- UTF8String Enumerated	
2107 reserved	Note: 2100 2101 2102 2103 2104	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Service-Type Application-Session-ID Delivery-Status	- UTF8String Enumerated Unsigned32	
2108 reserved - 2109 reserved - 2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String 2118 Charge-Reason-Code Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. Grouped 2201 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity	Note: 2100 2101 2102 2103 2104 2105	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Service-Type Application-Session-ID Delivery-Status reserved	- UTF8String Enumerated Unsigned32	
2109 reserved -	Note: 2100 2101 2102 2103 2104 2105 2106	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Service-Type Application-Session-ID Delivery-Status reserved reserved	UTF8String Enumerated Unsigned32 UTF8String	
2110IM-InformationGrouped2111Number-Of-Messages-Successfully-ExplodedUnsigned322112Number-Of-Messages-Successfully-SentUnsigned322113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String2117Content-provider-IDUTF8String2118Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.299.2200Subsession-Decision-InfoGrouped2201Subsession-Enforcement-InfoGrouped2202Subsession-OperationEnumerated2203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Service-Type Application-Session-ID Delivery-Status reserved reserved reserved	UTF8String Enumerated Unsigned32 UTF8String	
2111Number-Of-Messages-Successfully-ExplodedUnsigned322112Number-Of-Messages-Successfully-SentUnsigned322113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String2117Content-provider-IDUTF8String2118Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.299.2200Subsession-Decision-InfoGrouped2201Subsession-Enforcement-InfoGrouped2202Subsession-OperationEnumerated2203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Service-Type Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved	- UTF8String Enumerated Unsigned32 UTF8String	
2112Number-Of-Messages-Successfully-SentUnsigned322113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String2117Content-provider-IDUTF8String2118Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.299.2200Subsession-Decision-InfoGrouped2201Subsession-Enforcement-InfoGrouped2202Subsession-OperationEnumerated2203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Service-Type Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved reserved reserved	- UTF8String Enumerated Unsigned32 UTF8String	32.299 [5]
2113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String2117Content-provider-IDUTF8String2118Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.299.Grouped2200Subsession-Decision-InfoGrouped2201Subsession-Enforcement-InfoGrouped2202Subsession-OperationUnsigned322203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Service-Type Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved IM-Information	UTF8String Enumerated Unsigned32 UTF8String Grouped	32.299 [5]
2114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String2117Content-provider-IDUTF8String2118Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.299.Grouped2200Subsession-Decision-InfoGrouped2201Subsession-Enforcement-InfoGrouped2202Subsession-IdUnsigned322203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2107 2108 2109 2110 2111	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded	UTF8String Enumerated Unsigned32 UTF8String Grouped Unsigned32	32.299 [5]
2115DCD-InformationGrouped2116Content-IDUTF8String2117Content-provider-IDUTF8String2118Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.299.2200Subsession-Decision-InfoGrouped2201Subsession-Enforcement-InfoGrouped2202Subsession-IdUnsigned322203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2111 2112	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded Number-Of-Messages-Successfully-Sent	UTF8String Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32	32.299 [5]
2116 Content-IDUTF8String2117 Content-provider-IDUTF8String2118 Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.299.2200 Subsession-Decision-InfoGrouped2201 Subsession-Enforcement-InfoGrouped2202 Subsession-IdUnsigned322203 Subsession-OperationEnumerated2204 Multiple-BBERF-ActionEnumerated2205 UE-Local-IPv6-PrefixOctetString2206 DRA-DeploymentEnumerated2207 PCRF-AddressDiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2111 2112 2113	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded Number-Of-Messages-Exploded	- UTF8String Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32	32.299 [5]
2117 Content-provider-IDUTF8String2118 Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.299.2200 Subsession-Decision-InfoGrouped2201 Subsession-Enforcement-InfoGrouped2202 Subsession-IdUnsigned322203 Subsession-OperationEnumerated2204 Multiple-BBERF-ActionEnumerated2205 UE-Local-IPv6-PrefixOctetString2206 DRA-DeploymentEnumerated2207 PCRF-AddressDiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108 2110 2111 2112 2113 2114	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded Number-Of-Messages-Exploded Total-Number-Of-Messages-Sent	- UTF8String Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	32.299 [5]
2118 Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.299.2200 Subsession-Decision-InfoGrouped2201 Subsession-Enforcement-InfoGrouped2202 Subsession-IdUnsigned322203 Subsession-OperationEnumerated2204 Multiple-BBERF-ActionEnumerated2205 UE-Local-IPv6-PrefixOctetString2206 DRA-DeploymentEnumerated2207 PCRF-AddressDiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2110 2111 2112 2113 2114 2115	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded Number-Of-Messages-Exploded Total-Number-Of-Messages-Sent DCD-Information	- UTF8String Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped	32.299 [5]
Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299.2200 Subsession-Decision-InfoGrouped2201 Subsession-Enforcement-InfoGrouped2202 Subsession-IdUnsigned322203 Subsession-OperationEnumerated2204 Multiple-BBERF-ActionEnumerated2205 UE-Local-IPv6-PrefixOctetString2206 DRA-DeploymentEnumerated2207 PCRF-AddressDiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108 2110 2111 2112 2113 2114 2115 2116	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded Number-Of-Messages-Exploded Total-Number-Of-Messages-Sent DCD-Information Content-ID	- UTF8String Enumerated Unsigned32 UTF8String Grouped Unsigned32	32.299 [5]
2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108 2110 2111 2112 2113 2114 2115 2116 2117	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Session-ID Delivery-Status reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded Number-Of-Messages-Exploded Total-Number-Of-Messages-Sent DCD-Information Content-ID Content-provider-ID	- UTF8String Enumerated Unsigned32 UTF8String Grouped Unsigned32	32.299 [5]
2202Subsession-IdUnsigned322203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108 2110 2111 2112 2113 2114 2115 2116 2117 2118	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Session-ID Delivery-Status reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded Number-Of-Messages-Successfully-Sent Total-Number-Of-Messages-Sent DCD-Information Content-ID Content-provider-ID Charge-Reason-Code	- UTF8String Enumerated Unsigned32 UTF8String Grouped Unsigned32	32.299 [5]
2203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108 2110 2111 2112 2113 2114 2115 2116 2117 2118 Note: 2200	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded Number-Of-Messages-Successfully-Sent Total-Number-Of-Messages-Exploded Total-Number-Of-Messages-Sent DCD-Information Content-ID Content-provider-ID Charge-Reason-Code The AVP codes from 2119 to 2199 are reserved for TS 32.299. Subsession-Decision-Info	- UTF8String Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated	32.299 [5]
2204 Multiple-BBERF-ActionEnumerated29.215 [22]2205 UE-Local-IPv6-PrefixOctetString2206 DRA-DeploymentEnumerated2207 PCRF-AddressDiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108 2110 2111 2112 2113 2114 2115 2116 2117 2118 Note: 2200 2201	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded Number-Of-Messages-Successfully-Sent Total-Number-Of-Messages-Exploded Total-Number-Of-Messages-Sent DCD-Information Content-ID Content-provider-ID Charge-Reason-Code The AVP codes from 2119 to 2199 are reserved for TS 32.299. Subsession-Enforcement-Info	- UTF8String Enumerated Unsigned32 UTF8String	32.299 [5]
2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108 2110 2111 2112 2113 2114 2115 2116 2117 2118 Note: 2200 2201 2202	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded Number-Of-Messages-Successfully-Sent Total-Number-Of-Messages-Exploded Total-Number-Of-Messages-Sent DCD-Information Content-ID Content-ID Content-provider-ID Charge-Reason-Code The AVP codes from 2119 to 2199 are reserved for TS 32.299. Subsession-Enforcement-Info Subsession-Id	- UTF8String Enumerated Unsigned32 UTF8String	32.299 [5]
2206 DRA-DeploymentEnumerated2207 PCRF-AddressDiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2115 2116 2117 2118 Note: 2200 2201 2202 2203	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Service-Type Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded Number-Of-Messages-Successfully-Sent Total-Number-Of-Messages-Exploded Total-Number-Of-Messages-Sent DCD-Information Content-ID Content-ID Content-provider-ID Charge-Reason-Code The AVP codes from 2119 to 2199 are reserved for TS 32.299. Subsession-Decision-Info Subsession-Id Subsession-Operation	- UTF8String Enumerated Unsigned32 UTF8String	
2207 PCRF-Address DiameterIdentity	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 Note: 2200 2201 2202 2203 2204	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded Number-Of-Messages-Exploded Total-Number-Of-Messages-Sent DCD-Information Content-ID Content-ID Content-provider-ID Charge-Reason-Code The AVP codes from 2119 to 2199 are reserved for TS 32.299. Subsession-Decision-Info Subsession-Id Subsession-Operation Multiple-BBERF-Action	- UTF8String Enumerated Unsigned32 UTF8String	
,	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 Note: 2200 2201 2202 2203 2204 2205	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Service-Type Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded Number-Of-Messages-Successfully-Sent Total-Number-Of-Messages-Exploded Total-Number-Of-Messages-Sent DCD-Information Content-ID Content-provider-ID Charge-Reason-Code The AVP codes from 2119 to 2199 are reserved for TS 32.299. Subsession-Decision-Info Subsession-Enforcement-Info Subsession-Id Subsession-Operation Multiple-BBERF-Action UE-Local-IPv6-Prefix	- UTF8String Enumerated Unsigned32 UTF8String	
LOOGO IDDA Districtions	Note: 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 Note: 2200 2201 2202 2203 2204 2205 2206	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Service-Type Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded Number-Of-Messages-Successfully-Sent Total-Number-Of-Messages-Exploded Total-Number-Of-Messages-Sent DCD-Information Content-ID Content-provider-ID Charge-Reason-Code The AVP codes from 2119 to 2199 are reserved for TS 32.299. Subsession-Decision-Info Subsession-Enforcement-Info Subsession-Operation Multiple-BBERF-Action UE-Local-IPv6-Prefix DRA-Deployment	- UTF8String Enumerated Unsigned32 UTF8String	
2208 DRA-Binding Enumerated Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215.	Note: 2100 2101 2102 2103 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2200 2201 2202 2203 2204 2205 2207	The AVP codes from 2069 to 2099 are reserved for TS 32.299. reserved Application-Server-ID Application-Service-Type Application-Session-ID Delivery-Status reserved reserved reserved reserved reserved IM-Information Number-Of-Messages-Successfully-Exploded Number-Of-Messages-Successfully-Sent Total-Number-Of-Messages-Exploded Total-Number-Of-Messages-Sent DCD-Information Content-ID Content-ID Content-provider-ID Charge-Reason-Code The AVP codes from 2119 to 2199 are reserved for TS 32.299. Subsession-Decision-Info Subsession-Id Subsession-Operation Multiple-BBERF-Action UE-Local-IPv6-Prefix DRA-Deployment PCRF-Address	- UTF8String Enumerated Unsigned32 UTF8String	

0000		
2300 reserved	- 100	
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	20 200 [5]
2312 AoC-Service-Obligatory-Type	Grouped	32.299 [5]
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.	Enumerateu	
2400 LMSI	OctetString	
	Grouped	
2401 Serving-Node 2402 MME-Name		
	DiameterIdentity	
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets	Unsigned32	
2405 GMLC-Address	Address	29.173 [25]
2406 Additional-Serving-Node	Grouped	
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.		T
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	
2511 LCS-Codeword	UTF8String	
2512 LCS-Privacy-Check	Enumerated	
2513 Accuracy-Fulfilment-Indicator	Enumerated	29.172 [24]
2514 Age-Of-Location-Estimate	Unsigned32	1
2515 Velocity-Estimate	OctetString	
2516 EUTRÁN-Positioning-Data	OctetString	
2517 ECGI	OctetString	
2518 Location-Event	Enumerated	
2519 Pseudonym-Indicator	Enumerated	
2520 LCS-Service-Type-ID	Unsigned32	
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	
		<u> </u>

2527	UTRAN-Positioning-Info	Crouped	
	UTRAN-Positioning-Data	Grouped OctetString	
	UTRAN-GANSS-Positioning-Data	OctetString	
	LRR-Flags	Unsigned32	
	LCS-Reference-Number	OctetString	
	Deferred-Location-Type	Unsigned32	
	Area-Event-Info	Grouped	
	Area-Definition	Grouped	
2535		Grouped	
	Area-Type	Unsigned32	
	Area-Identification	Grouped	
	Occurrence-Info	Enumerated	
	Interval-Time	Unsigned32	
	Periodic-LDR-Information	Grouped	
	Reporting-Amount	Unsigned32	
	Reporting-Amount	Unsigned32	
	Reporting-PLMN-List	Grouped	
	PLMN-ID-List	Grouped	
	PLR-Flags	Unsigned32	
	PLR-Flags PLA-Flags	Unsigned32	
	PLA-Flags Deferred-MT-LR-Data	Grouped	
	Deferred-MT-ER-Data Termination-Cause	Unsigned32	
	Termination-Cause LRA-Flags	Unsigned32 Unsigned32	
	LRA-Flags Periodic-Location-Support-Indicator	Enumerated	
	Periodic-Location-Support-Indicator Prioritized-List-Indicator	Enumerated	
	Prioritized-List-indicator ESMLC-Cell-Info	Grouped	
	Cell-Portion-ID	Unsigned32	
	1xRTT-RCID	OctetString	
	Delayed-Location-Reporting-Data	Grouped	
	Delayed-Location-Reporting-Data Civic-Address	UTF8String	
	Barometric-Pressure	Unsigned32	
	Barometric-Pressure UTRAN-Additional-Positioning-Data	OctetString	
	The AVP codes from 2559 to 2599 are reserved for TS 29.172.	Octerstring	
	reserved		
	IMS-Application-Reference-Identifier	UTF8String	
	Low-Priority-Indicator	Enumerated	
	IP-Realm-Default-Indicator	Enumerated	32.299 [5]
	Local-GW-Inserted-Indicator	Enumerated	32.299 [3]
	Transcoder-Inserted-Indicator	Enumerated	
	PDP-Address-Prefix-Length	Unsigned32	
	The AVP codes from 2607 to 2699 are reserved for TS 32.299.	Offsigned32	
	Reserved		
	Transit-IOI-List	UTF8String	
	Status-AS-Code	Enumerated	
	NNI-Information	Grouped	
	NNI-Type	Enumerated	
	Neighbour-Node-Address	Address	
	Relationship-Mode	Enumerated	
	Session-Direction	Enumerated	
	From-Address	UTF8String	
	Access-Transfer-Information	Grouped	32.299 [5]
	Access-Transfer-Information Access-Transfer-Type	Enumerated	
	Related-IMS-Charging-Identifier	UTF8String	
	Related-IMS-Charging-Identifier-Node	Address	
	IMS-Visited-Network-Identifier	UTF8String	
	TWAN-User-Location-Info	Grouped	
	Reserved	-	
	BSSID	- UTF8String	
	TAD-Identifier	Enumerated	
	The AVP codes from 2718 to 2799 are reserved for TS 32.299.	Liminerated	
	Reserved	_	
	ADC-Revalidation-Time	Time	
	TDF-Application-Instance-Identifier	OctetString	29.212 [19]
	HeNB-BBF-FQDN	UTF8String	23.212[13]
	HeNB-Local-IP-Address	Address	
2804	HANR-LOCALIP-AGGRACE		

0005 UE Level ID Address	A -1 -1	1
2805 UE-Local-IP-Address	Address	
2806 UDP-Source-Port	Unsigned32	
2807 CS-Service-Qos-Request-Identifier	OctetString	1
2808 CS-Service-QoS-Request-Operation	Enumerated	
2809 Mute-Notification	Enumerated	
2810 Monitoring-Time	Time	
2811 AN-GW-Status	Enumerated	
2812 User-Location-Info-Time	Grouped	
2813 CS-Service-Resource-Report	Time	
2814 CS-Service-Resource-Failure-Cause	Enumerated	
2815 CS-Service-Resource-Result-Operation	Enumerated	1
2816 Default-QoS-Information	Grouped	-
2817 Default-QoS-Name	UTF8String	-
		-
2818 Conditional-APN-Aggregate-Max-Bitrate	Grouped	-
2819 RAN-NAS-Release-Cause	OctetString	<u> </u>
2820 Presence-Reporting-Area-Elements-List	OctetString	
2821 Presence-Reporting-Area-Identifier	OctetString	
2822 Presence-Reporting-Area-Information	Grouped	
2823 Presence-Reporting-Area-Status	Unsigned32	
2824 NetLoc-Access-Support	Unsigned32	
2825 Fixed-User-Location-Info	Grouped	1
2826 PCSCF-Restoration-Indication	Unsigned32	1
2827 IP-CAN-Session-Charging-Scope	Enumerated	1
2828 Monitoring-Flags	Unsigned32	1
2829 Default-Access		-
	Enumerated	1
2830 NBIFOM-Mode	Enumerated	-
2831 NBIFOM-Support	Enumerated	1
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	1
2838 Request-Type	Unsigned32	
2839 Execution-Time	Time	•
2840 Conditional-Policy-Information	Grouped	-
2841 Resource-Release-Notification	Enumerated	-
2842 Removal-Of-Access		-
	Enumerated	
Note: The AVP codes from 2843 to 2899 are reserved for TS 29.212.		T
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-Action	Grouped	1
3002 Device-Notification	Grouped	1
3003 Trigger-Data	Grouped	1
	OctetString	1
3004 Payload		-
3005 Action-Type	Enumerated	00 000 :==:
3006 Priority-Indication	Enumerated	29.368 [27]
3007 Reference-Number	Unsigned32	_
3008 Request-Status	Enumerated	
3009 Delivery-Outcome	Enumerated	
3010 Application-Port-Identifier	Unsigned32	
3011 Old-Reference-Number	Unsigned32	
3012 Feature-Supported-In-Final-Target		1
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.	Unsigneg32	1
	Unsigned32	
		<u> </u>
3100 IP-SM-GW-Number	OctetString	
3100 IP-SM-GW-Number 3101 IP-SM-GW-Name	OctetString DiameterIdentity	
3100 IP-SM-GW-Number 3101 IP-SM-GW-Name 3102 User-Identifier	OctetString DiameterIdentity Grouped	29.336 [28]
3100 IP-SM-GW-Number 3101 IP-SM-GW-Name 3102 User-Identifier 3103 Service-ID	OctetString DiameterIdentity Grouped Enumerated	29.336 [28]
3100 IP-SM-GW-Number 3101 IP-SM-GW-Name 3102 User-Identifier	OctetString DiameterIdentity Grouped	29.336 [28]

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	Unsigned32	
3117 Periodic-Time	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	
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	Unsigned32	
3134 Maximum-Response-Time	Unsigned32	
3135 Location-Information-Configuration	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	
	Time	
3148 Reference-ID-Validity-Time 3149 Event-handling	Unsigned32	
3150 NIDD-Authorization-Request		
	Grouped Grouped	
3151 NIDD-Authorization-Response		
3152 Service-Report	Grouped	
3153 Node-Type	Unsigned32	
Note: The AVP codes from 3154 to 3199 are reserved for TS 29.336.	[m., ma	
3200 SM-Delivery-Outcome-T4	Enumerated	
3201 Absent-Subscriber-Diagnostic-T4	Enumerated	29.337 [29]
3202 Trigger-Action	Unsigned32	[1
3203 MTC-Error-Diagnostic	Unsigned32	
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.	0	
3300 SC-Address	OctetString	
3301 SM-RP-UI	OctetString	
3302 TFR-Flags	Unsigned32	
3303 SM-Delivery- Failure-Cause	Grouped	
3304 SM-Enumerated-Delivery-Failure-Cause	Enumerated	
3305 SM-Diagnostic-Info	OctetString	29.338 [30]
3306 SM-Delivery-Timer	Unsigned32	
3307 SM-Delivery-Start-Time	Time	
3308 SM-RP-MTI	Enumerated	
3309 SM-RP-SMEA	OctetString	
3310 SRR-Flags	Unsigned32	

	<u>, </u>		
	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	
	MSC-Address	OctetString	
	Network-Call-Reference-Number	OctetString	
	Start-of-Charging	Time	00 000 :-:
	VLR-Number	OctetString	32.299 [5]
3421	CN-Operator-Selection-Entity	Enumerated	
	ISUP-Cause-Diagnostics	OctetString	
	ISUP-Cause-Location	Unsigned32	
	ISUP-Cause-Value	Unsigned32	
	EPDG-Address	Address	
	Announcing-UE-HPLMN-Identifier	UTF8String	
	Announcing-UE-VPLMN-Identifier	UTF8String	
	Coverage-Status	Enumerated	
	Layer-2-Group-ID	OctetString	
	Monitored-PLMN-Identifier	UTF8String	
	Monitoring-UE-HPLMN-Identifier	UTF8String	
	Monitoring-UE-Identifier	UTF8String	
	Monitoring-UE-VPLMN-Identifier	UTF8String	
	ProSe-PC3-Control-Protocol-Cause	Integer32	
	ProSe-PC3-EPC-Control-Protocol-Cause	Integer32	
	Requested-PLMN-Identifier	UTF8String	
	Requestor-PLMN-Identifier	UTF8String	
	Role-Of-ProSe-Function	Enumerated	
	Usage-Information-Report-Sequence-Number	Integer32	
1.3/1/1	ProSe-3rd-Party-Application-ID	UTF8String	

2//1	ProSe-Direct-Communication-Transmission-Data-Container	Grouped	
	ProSe-Direct-Confindingation-Transmission-Data-Container ProSe-Direct-Discovery-Model	Enumerated	
	ProSe-Event-Type	Enumerated	
	ProSe-Event-Type ProSe-Function-IP-Address	Address	
	ProSe-Functionality	Enumerated	
	ProSe-Group-IP-Multicast-Addresses	Address	
	ProSe-Information	Grouped	
	ProSe-Range-Class	Enumerated	
	ProSe-Reason-For-Cancellation	Enumerated	
	ProSe-Request-Timestamp	Time	
	ProSe-Role-Of-UE ProSe-Source-IP-Address	Enumerated Address	
	ProSe-UE-ID		
		OctetString	
	Proximity-Alert-Indication	Enumerated	
	Proximity-Alert-Timestamp	Time Time	
	Proximity-Cancellation-Timestamp		
	ProSe-Function-PLMN-Identifier	UTF8String	
	Application-Specific-Data	OctetString	
	Coverage-Info	Grouped	
	Location-Info	Grouped	
	ProSe-Direct-Communication-Reception-Data-Container	Grouped	
	Radio-Frequency	OctetString	
	Radio-Parameter-Set-Info	Grouped	
	Radio-Parameter-Set-Values	OctetString	
	Radio-Resources-Indicator	Integer32	
	Time-First-Reception	Time	
	Time-First-Transmission	Time	
	Transmitter-Info	Grouped	
	The AVP codes from 3469 to 3499 are reserved for TS 32.299.		
	BMSC-Address	Address	
	BMSC-Port	Unsigned32	
	MBMS-Bearer-Event	Unsigned32	
	MBMS-Bearer-Event-Notification	Grouped	
	MBMS-Bearer-Request	Grouped	
	MBMS-Bearer-Response	Grouped	
	MBMS-Bearer-Result	Unsigned32	
3507	MBMS-Start-Time	Time	
3508	Radio-Frequency	Unsigned32	29.468 [31]
	TMGI-Allocation-Request	Grouped	23.400 [31]
	TMGI-Allocation-Response	Grouped	
	TMGI-Allocation-Result	Unsigned32	
3512	TMGI-Deallocation-Request	Grouped	
	TMGI-Deallocation-Response	Grouped	
	TMGI-Deallocation-Result	Unsigned32	
	TMGI-Expiry	Grouped	
3516	TMGI-Number	Unsigned32	
	MB2U-Security	Unsigned32	
	The AVP codes from 3518 to 3599 are reserved for TS 29.468.		
3600	Origin-App-Layer-User-Id	UTF8String	
	Target-App-Layer-User-Id	UTF8String	
	ProSe-Function-ID	OctetString	
	ProSe-Request-Type	Unsigned32	
	PDUID	OctetString	
	Application-Data	UTF8String	
	Allowed-Suffixes-Number	Unsigned32	29.343 [32]
	Monitor-Target	Grouped	
	ProSe-Code-Suffix-Mask	Grouped	
	Suffix-Code	OctetString	
	Suffix-Mask	OctetString	
	Banned-User-Target	Grouped	
	Metadata-Indicator	Unsigned32	
	The AVP codes from 3613 to 3699 are reserved for TS 29.343.	,	
	ProSe-Subscription-Data	Grouped	
	ProSe-Permission	Unsigned32	29.344 [33]
	ProSe-Allowed-PLMN	Grouped	_0.0 [00]
5.50		, 3.54554	

	ProSe-Direct-Allowed	Unsigned32	
	UPR-Flags	Unsigned32	
	PNR-Flags	Unsigned32	
	ProSe-Initial-Location-Information	Grouped	
	Authorized-Discovery-Range	Unsigned32	
	The AVP codes from 3709 to 3799 are reserved for TS 29.344.		
	Reserved	LITEOU:	
	App-Layer-User-Id	UTF8String	
	Assistance-info	Grouped	
	Assistance-Info-Validity-Timer	Unsigned32	
	Discovery-Type	Unsigned32	
	Filter-Id	OctetString	
	MAC-Address	UTF8String	
	Match-Report	Grouped	
	Operating-Channel	Unsigned32	
	P2P-Features	Unsigned32	
	ProSe-App-Code	UTF8String	
	ProSe-App-Id	UTF8String UTF8String	
	ProSe-App-Mask ProSe-Discovery-Filter	Grouped	
	PRR-Flags	Unsigned32	
	ProSe-Validity-Timer	Unsigned32	
	Requesting-EPUID	UTF8String	
	Targeted-EPUID	UTF8String	
	Time-Window	Unsigned32	
	WiFi-P2P-Assistance-Info	Grouped	
	WLAN-Assistance-Info	Grouped	
	WLAN-Link-Layer-Id	OctetString	
	WLAN-Link-Layer-Id-List	Grouped	
	Location-Update-Trigger	Grouped	
	Location-Update-Event-Type	Unsigned32	
	Change-Of-Area-Type	Grouped	
	Location-Update-Event-Trigger	Unsigned32	
	Report-Cardinality	Enumerated	
	Minimum-Interval-Time	Unsigned32	
	Periodic-Location-Type	Grouped	29.345 [34]
	Location-Report-Interval-Time	Unsigned32	_0.0.0 [0.1]
	Total-Number-Of-Reports	Unsigned32	
	Validity-Time-Announce	Unsigned32	
	Validity-Time-Monitor	Unsigned32	
3834	Validity-Time-Communication	Unsigned32	
	ProSe-App-Code-Info	Grouped	
3836		OctetString	
	UTC-based-Counter	Unsigned32	
3838	ProSe-Match-Refresh-Timer	Unsigned32	
	ProSe-Metadata-Index-Mask	OctetString	
	App-Identifier	Grouped	
	OS-ID	OctetString	
	OS-App-ID	UTF8String	
	Requesting-RPAUID	UTF8String	
	Target-RPAUID	UTF8String	
	Target-PDUID	OctetString	
	ProSe-Restricted-Code	OctetString	
	ProSe-Restricted-Code-Suffix-Range	OctetString	
	Beginning-Suffix	OctetString	
	Ending-Suffix	OctetString	
	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	
13858	Banned-RPAUID	UTF8String	

0050	D. LODIUD	0.1.101	
	Banned-PDUID	OctetString	
	Code-Receiving-Security-Material	Grouped	
	Code-Sending-Security-Material	Grouped	
	DUSK	OctetString	
	DUIK DUCK	OctetString OctetString	
	MIC-Check-indicator	Unsigned32	
		OctetString	
	Encrypted-Bitmask ProSe-App-Code-Suffix-Range	OctetString	
Noto:	The AVP codes from 3868 to 3899 are reserved for TS 29.345.	OctetString	
	Reserved		
	Enhanced-Diagnostics	Grouped	
	Inter-UE-Transfer	Enumerated	
	TWAG-Address	Address	
	Announcement-Information	Grouped	
	Announcement-Information Announcement-Identifier	Unsigned32	
	Announcement-Order	Unsigned32	
	Variable-Part	Grouped	
	Variable-Part-Order	Unsigned32	
	Variable-Part-Type	Unsigned32	
	Variable-Part-Value	UTF8String	
	Time-Indicator	Unsigned32	00
	Quota-Indicator	Enumerated	32.299 [5]
	Play-Alternative	Enumerated	
	Language	UTF8String	
	Privacy-Indicator	Enumerated	
	Called-Identity	UTF8String	
	Called-Identity-Change	Grouped	
	UWAN-User-Location-Info	Grouped	
3919	Monitoring-Event-Configuration-Activity	Integer32	
	Monitoring-Event-Report-Data	Grouped	
3921	Monitoring-Event-Information	Grouped	
3922	Monitoring-Event-Functionality	Integer32	
3923	Monitoring-Event-Report-Number	Unsigned32	
Note:	The AVP codes from 3924 to 3999 are reserved for TS 32.299.		
	Aggregated-Congestion-Info	Grouped	
	Aggregated-RUCI-Report	Grouped	
	Congestion-Level-Definition	Grouped	
	Congestion-Level-Range	Unsigned32	
	Congestion-Level-Set-Id	Unsigned32	
	Congestion-Level-Value	Unsigned32	
	Congestion-Location-Id	Grouped	29.217 [35]
	Conditional-Restriction	Unsigned32	
	eNodeB-Id	OctetString	
	IMSI-List	OctetString	
	RCAF-Id	DiameterIdentity	
	Reporting-Restriction	Unsigned32	
	RUCI-Action	Unsigned32	
	The AVP codes from 4013 to 4099 are reserved for TS 29.217.	0	00.450.5073
	Network-Congestion-Area-Report	Grouped	29.153 [37]
	Ns-Request-Type The AVP codes from 4103 to 4199 are reserved for TS 29.153.	Unsigned32	
		Ootot String	
	Network-Area-Info-List Reference-Id	OctetString OctetString	
	Transfer-Request-Type	Unsigned32	
	Time-Window	Grouped	
	Transfer-End-Time	Time	29.154 [38]
	Transfer-Start-Time	Time	29.10 4 [30]
	Transfer-Policy	Grouped	
	Transfer-Policy-Id	Unsigned32	
	Number-Of-UEs	Unsigned32	
	The AVP codes from 4210 to 4299 are reserved for TS 29.154.	Unagneusz	
	Communication-Failure-Information	Grouped	
	Cause-Type	Unsigned32	29.128 [36]
	S1AP-Cause	Unsigned32	20.120 [00]
4302	STAP-Cause		

4303 RANAP	-Cause	Unsigned32	
4304 GMM-C	ause	Unsigned32	
4305 SM-Cau	use	Unsigned32	
4306 Number	r-of-UE-Per-Location-Configuration	Grouped	
4307 Number	r-of-UE-Per-Location-Report	Grouped	
4308 UE-Cou	ınt	Unsigned32	
4309 BSSGP	-Cause	Unsigned32	
	-PLMN-Rate-Control	Grouped	
4311 Uplink-F	Rate-Limit	Unsigned32	
4312 Downlin	nk-Rate-Limit	Unsigned32	
4313 Extende	ed-PCO	OctetString	
Note: The AVI	codes from 4314 to 4399 are reserved for TS 29.128.		
4500 MCPTT	-ID	UTF8String	
4501 Data-Id	entification	Grouped	
4502 Data-Id	entification-Prefix	Unsigned32	
4503 Data-Id	entification-Flags	Unsigned64	
4504 DPR-FI	ags	Unsigned32	
4505 DPA-FI	ags	Unsigned32	
4506 DUR-FI		Unsigned32	29.283 [39]
4507 DUA-FI	ags	Unsigned32	
4508 NDR-FI	ags	Unsigned32	
4509 NDA-FI	ags	Unsigned32	
4510 User-Da		Unsigned32	
4511 MCPTT	-User-Profile-Data	Grouped	
4512 Sequen		Unsigned32	
Note: The AVI	P 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.

Table 8.1.2: 3GPP specific Success result codes

Experimental Result Code	Result text	Specified in the TS
2001	DIAMETER_FIRST_REGISTRATION	
2002	DIAMETER_SUBSEQUENT_REGISTRATION]
2003	DIAMETER_UNREGISTERED_SERVICE	29.229 [2]
2004	DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED	1
2005	Deprecated value	
Note: The Experim	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.	
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]
Note: The Experim	ental Result Codes from 2022 to 2040 are reserved for the TS 29.061	
		29.109 [7]
Note: The Experim	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.	

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS	
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]	
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS		
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.		
4121	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]	
Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061.		
4141	DIAMETER_PCC_BEARER_EVENT		
4142	DIAMETER_BEARER_EVENT	20 212 [10]	
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	20 272 [24]	
4182	DIAMETER_ERROR_CAMEL_SUBSCRIPTION_PRESENT	29.272 [21]	
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.		
4201	DIAMETER_ERROR_ABSENT_USER	29.173 [25]	
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.		
4221	DIAMETER_ERROR_UNREACHABLE_USER		
4222	DIAMETER_ERROR_SUSPENDED_USER		
4223	DIAMETER_ERROR_DETACHED_USER	20 472 [24]	
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]	
4225	DIAMETER_ERROR_POSITIONING_FAILED		
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT		
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.		
4241	DIAMETER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	29.219 [26]	
Note: The Experimental Result Codes from 4242 to 4260 are reserved for the TS 29.219.			
4261	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	_00 [_]
5009	DIAMETER ERROR NOT SUPPORTED USER DATA	
5010	unassigned	
5011	DIAMETER ERROR FEATURE UNSUPPORTED	
5012	DIAMETER ERROR SERVING NODE FEATURE UNSUPP	
3012	ORTED	
Note: The Expe	erimental Result Codes from 5013 to 5020 are reserved for the TS	S 29.229. 32.299 [5]
Note: The Expe	erimental Result Codes from 5021 to 5040 are reserved for the TS	
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	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	2.00.004
	erimental Result Codes from 5046 to 5060 are reserved for the TS	o 29.23 4 .
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	23.214[10]
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
5068	TEMPORARY_NETWORK_FAILURE	
	erimental Result Codes from 5069 to 5080 are reserved for TS 29 TS 29.214.	.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	
5105	DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC	29.329 [4]
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107		
	DIAMETER ERROR NO STRSCRIPTION TO DATA	
	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	3 20 320
5108 Note: The Expe	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS	S 29.329.
5108 Note: The Expe 5120	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS DIAMETER_ERROR_START_INDICATION	S 29.329.
5108 Note: The Expe	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS DIAMETER_ERROR_START_INDICATION DIAMETER_ERROR_STOP_INDICATION DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]
5108 Note: The Expe 5120 5121 5122	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS DIAMETER_ERROR_START_INDICATION DIAMETER_ERROR_STOP_INDICATION DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E	
5108 Note: The Expe 5120 5121 5122 5123	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS DIAMETER_ERROR_START_INDICATION DIAMETER_ERROR_STOP_INDICATION DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E DIAMETER_ERROR_SERVICE_AREA	29.061 [13]
5108 Note: The Expe 5120 5121 5122 5123 Note: The Expe	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS DIAMETER_ERROR_START_INDICATION DIAMETER_ERROR_STOP_INDICATION DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E DIAMETER_ERROR_SERVICE_AREA erimental Result Codes from 5124 to 5139 are reserved for the TS	29.061 [13]
5108 Note: The Expe 5120 5121 5122 5123 Note: The Expe 5140	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS DIAMETER_ERROR_START_INDICATION DIAMETER_ERROR_STOP_INDICATION DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E DIAMETER_ERROR_SERVICE_AREA erimental Result Codes from 5124 to 5139 are reserved for the TS DIAMETER_ERROR_INITIAL_PARAMETERS	29.061 [13]
5108 Note: The Experiments 5120 5121 5122 5123 Note: The Experiments 5140 5141	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS DIAMETER_ERROR_START_INDICATION DIAMETER_ERROR_STOP_INDICATION DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E DIAMETER_ERROR_SERVICE_AREA erimental Result Codes from 5124 to 5139 are reserved for the TS DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT	29.061 [13]
5108 Note: The Experiments 5120 5121 5122 5123 Note: The Experiments 5140 5141 5142	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS DIAMETER_ERROR_START_INDICATION DIAMETER_ERROR_STOP_INDICATION DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E DIAMETER_ERROR_SERVICE_AREA erimental Result Codes from 5124 to 5139 are reserved for the TS DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT	29.061 [13]
5108 Note: The Experiments 5120 5121 5122 5123 Note: The Experiments 5140 5141 5142 5143	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS DIAMETER_ERROR_START_INDICATION DIAMETER_ERROR_STOP_INDICATION DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E DIAMETER_ERROR_SERVICE_AREA erimental Result Codes from 5124 to 5139 are reserved for the TS DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	29.061 [13]
5108 Note: The Experiments 5120 5121 5122 5123 Note: The Experiments 5140 5141 5142	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS DIAMETER_ERROR_START_INDICATION DIAMETER_ERROR_STOP_INDICATION DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E DIAMETER_ERROR_SERVICE_AREA erimental Result Codes from 5124 to 5139 are reserved for the TS DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT	29.061 [13]
5108 Note: The Experiments 5120 5121 5122 5123 Note: The Experiments 5140 5141 5142 5143 5144	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS DIAMETER_ERROR_START_INDICATION DIAMETER_ERROR_STOP_INDICATION DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E DIAMETER_ERROR_SERVICE_AREA erimental Result Codes from 5124 to 5139 are reserved for the TS DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D	29.061 [13] S 29.061.
5108 Note: The Experiments 5120 5121 5122 5123 Note: The Experiments 5140 5141 5142 5143 5144	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS DIAMETER_ERROR_START_INDICATION DIAMETER_ERROR_STOP_INDICATION DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E DIAMETER_ERROR_SERVICE_AREA erimental Result Codes from 5124 to 5139 are reserved for the TS DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D DIAMETER_QOS_RULE_EVENT	29.061 [13] S 29.061.
5108 Note: The Experiments 5120 5121 5122 5123 Note: The Experiments 5140 5141 5142 5143 5144 5145 5146	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS DIAMETER_ERROR_START_INDICATION DIAMETER_ERROR_STOP_INDICATION DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E DIAMETER_ERROR_SERVICE_AREA erimental Result Codes from 5124 to 5139 are reserved for the TS DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D DIAMETER_QOS_RULE_EVENT reserved	29.061 [13] S 29.061.
5108 Note: The Experiments 5120 5121 5122 5123 Note: The Experiments 5140 5141 5142 5143 5144 5145 5146 5147	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS DIAMETER_ERROR_START_INDICATION DIAMETER_ERROR_STOP_INDICATION DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E DIAMETER_ERROR_SERVICE_AREA erimental Result Codes from 5124 to 5139 are reserved for the TS DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D DIAMETER_QOS_RULE_EVENT reserved DIAMETER_ERROR_CONFLICTING_REQUEST	29.061 [13] S 29.061.
5108 Note: The Experiments 5120 5121 5122 5123 Note: The Experiments 5140 5141 5142 5143 5144 5145 5146	DIAMETER_ERROR_DSAI_NOT_AVAILABLE erimental Result Codes from 5109 to 5119 are reserved for the TS DIAMETER_ERROR_START_INDICATION DIAMETER_ERROR_STOP_INDICATION DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E DIAMETER_ERROR_SERVICE_AREA erimental Result Codes from 5124 to 5139 are reserved for the TS DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D DIAMETER_QOS_RULE_EVENT reserved	29.061 [13] S 29.061.

5401	DIAMETER_ERROR_IMPI_UNKNOWN	
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	
Note: The Ex	perimental Result Codes from 5404 to 5419 are reserved for the TS	S 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	
Note: The Ex	perimental Result Codes from 5424 to 5449 are reserved for the TS	S 29.272.
5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI	
	ON	
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	00 070 [00]
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	29.273 [20]
5453	DIAMETER ERROR LATE OVERLAPPING REQUEST	
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST	
	perimental 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	_00 []
Note: The Exi	perimental Result Codes from 5472 to 5489 are reserved for the TS	S 29.215.
5490	DIAMETER ERROR UNAUTHORIZED REQUESTING NET	
	WORK	29.173 [25]
Note: The Exi	perimental Result Codes from 5491 to 5509 are reserved for the TS	S 29.173.
5510	DIAMETER ERROR UNAUTHORIZED REQUESTING ENTI	2 200.
00.0	TY	
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
5512	DIAMETER_ERROR_REQUESTED_RANGE_IS_NOT	
3312	ALLOWED	
5513	DIAMETER ERROR CONFIGURATION EVENT STORAGE	29.336 [28]
3313	_NOT_SUCCESSFUL	
5514	DIAMETER ERROR CONFIGURATION EVENT NON EXIS	
3314	TANT	
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	
	perimental Result Codes from 5516 to 5529 are reserved for the TS	2 20 226
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	3 29.000.
5531	DIAMETER_ERROR_SC_CONGESTION	
5532	DIAMETER_ERROR_SM_PROTOCOL	
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	29.337 [29]
5534	DIAMETER_ERROR_TRIGGER_REFLACE_FAILURE	
5535	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING perimental Result Codes from 5536 to 5549 are reserved for the T	2 20 227
		5 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	00 000 1001
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	
	perimental Result Codes from 5559 to 5569 are reserved for the TS	
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
	ne Experimental Result Codes from 5571 to 5589 are reserved for t	he TS 29.219.
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	
5592	DIAMETER_ERROR_PFID_UNKNOWN	
5593	DIAMETER_ERROR_APP_REGISTER_REJECT	
5594	DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE	
	D	
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	29.343 [32]
5596	DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN	
5597		
	DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_S	
	DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_S ET	
5598		
5598 5599	ET DIAMETER_ERROR_MISSING_APPLICATION_DATA	
	ET	

DIAMETER_ERROR_TARGET_RPAUID_UNKNOWN			
Note: The Experimental Result Codes from 5603 to 5609 are reserved for the TS 29.343. 5610 DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION 5611 DIAMETER_ERROR_PROSE_NOT_ALLOWED 29.344 [33] 5612 DIAMETER_ERROR_UE_LOCATION_UNKNOWN Note: The Experimental 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_P LMN 5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_PDUID 5640 DIAMETER_ERROR_INVALID_TARGET_PAUID 5640 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental 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 Note: The Experimental Result Codes from 5651 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.2283 [39]	5601	DIAMETER_ERROR_TARGET_RPAUID_UNKNOWN	
S610 DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION	5602	DIAMETER_ERROR_INVALID_APPLICATION_DATA	
S611 DIAMETER_ERROR_ PROSE_NOT_ALLOWED 29.344 [33] 5612 DIAMETER_ERROR_ UE_LOCATION_UNKNOWN Note: The Experimental Result Codes from 5613 to 5629 are reserved for the TS 29.344. 5630 DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER	Note: The Expe		S 29.343.
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5630 DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER 5631 DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN 5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_INVALID_TARGET_RESTRICTED_CODE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV_ED 29.128 [36] Note: The Experimental Result Codes from 5651 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]			
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5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CODE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental 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 Note: The Experimental Result Codes from 5651 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE	
5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_ PLMN 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 Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 29.128 [36] 5651 DIAMETER_ERROR_INVALID_EPS_BEARER Note: The Experimental Result Codes from 5651 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	
5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CODE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental 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 Note: The Experimental Result Codes from 5651 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	5634	DIAMETER_ERROR_PROXIMITY_REJECTED	
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 Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV_ED	5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	20 245 [24]
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 Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 29.128 [36] 5651 DIAMETER_ERROR_INVALID_EPS_BEARER Note: The Experimental Result Codes from 5651 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	5636		29.345 [34]
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5640 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO DE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 29.128 [36] 5651 DIAMETER_ERROR_INVALID_EPS_BEARER Note: The Experimental Result Codes from 5651 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 29.283 [39]	5638	DIAMETER_ERROR_INVALID_TARGET_PDUID	
DE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE	5639	DIAMETER_ERROR_INVALID_TARGET_RPAUID	
Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 29.128 [36] 5651 DIAMETER_ERROR_INVALID_EPS_BEARER Note: The Experimental Result Codes from 5651 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 29.283 [39] 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]	5640		
5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 29.128 [36] 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 29.128 [36] Note: The Experimental Result Codes from 5651 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 29.283 [39] 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]	5641	DIAMETER_ERROR_INVALID_DISCOVERY_TYPE	
ED 29.128 [36] 5651 DIAMETER_ERROR_INVALID_EPS_BEARER Note: The Experimental Result Codes from 5651 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.128 [36]	Note: The Expe	erimental Result Codes from 5642 to 5649 are reserved for the TS	S 29.345.
5651 DIAMETER_ERROR_INVALID_EPS_BEARER Note: The Experimental Result Codes from 5651 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]	5650		00 400 [00]
Note: The Experimental Result Codes from 5651 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]	E651	25	29.128 [36]
5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]		. – – – –	2 20 129
5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]			J 20.120.
Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.283.			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

Data	TCC "	TCO Date	00	D	Change history	OL	Marri
Date	TSG #	TSG Doc.	CR	Kev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292	004		Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25 CN#25	NP-040401			Correction of Charging application reference	6.0.0	6.1.0
		NP-040401			Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401 NP-040412		4	Removal of User Data Request Type AVP Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-09	CN#25 CN#26	NP-040412 NP-040579		1	Inclusion of missing Cx AVPs	6.0.0	6.1.0
2004-12	CN#26	NP-040579		1	Reservation of command code 310	6.1.0	6.2.0
2004-12	CN#26	NP-040579		1	Addition of Gmb interface	6.1.0	6.2.0
2004-12	CN#26	NP-040600		2	Documenting the Reuse of the 3GPP specific application identifier	6.1.0	6.2.0
2004 12	011#20	141 040000	010	_	of Ro for Re on the Charging Interfaces	0.1.0	0.2.0
2004-12	CN#26	NP-040579	011		Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579	012		Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047	040	1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039	043		Allocations for Gx interface		
		NP-050039			Allocations for Gmb interface		
		NP-050039	046		Allocations for MMS, MM10 Interface		
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.3.0	6.4.0
		CP-050196		1	Addition of Maximum-Number-Accesses AVP		
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.4.0	6.5.0
		CP-050310			Addition of Pr reference point to TS 29.230	1	
		CP-050310			Error code cleanup	1	
		CP-050310	0056		Addition of Rx ref. point and renaming of Experimental Result		
2005.00	CT#00	CD 050047	0055		Codes	0.5.0	700
2005-09 2005-12	CT#29 CT#30	CP-050317			Addition of GUSS timestamp AVP	6.5.0 7.0.0	7.0.0
2005-12	C1#30	CP-050624 CP-050612			Addition of GBA-Type AVP Additional Gmb AVP Allocation	7.0.0	7.1.0
	ŀ	CP-050612			Reservation of AVP codes for 32.299	1	
		CP-050625			Management of Sh subscriptions	ł	
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
2000-03	01#31	CP-060084			User-Data in the response to Sh-Subs-Notif	7.1.0	7.2.0
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure		
2006-06	CT#32	CP-060302		<u> </u>	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
2000 00	01//00	CP-060417			Errors to be sent in response to Sh-Notif	7.0.0	7.4.0
		CP-060417			Definition of specific Diameter codes for DSAI	i	
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
		CP-060562		<u> </u>	Addition of Diameter Error Code for Emergency Purposes	1	1.0.0
		CP-060555			Allocation of new AVP codes for Gmb	i	
		CP-060555			AVP code allocations for Rf and Ro interfaces	i	
	Ì	CP-060566			Allocation of Success Result Code Range for Gi Interface	İ	
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	Ī	
	İ	CP-070020	0093		Allocation of Experimental-Result-Code AVP for Gi Interface	Ī	
2007-06	CT#36	CP-070318	0096		Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312	0098		Experimental-Result-Codes for Gmb interface]	
		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		
2007.42	CT#38	CD 070755	0404	4	Codes for Gx protocol	700	0.00
2007-12	C 1#38	CP-070755	0101	4	AVP assignments to support SIP Digest Authentication AVP code reservation for 32.299 in Rel-8	7.9.0	8.0.0
2008-03	CT#39	CP-080015		1	Correction of reference to TS 29.140	8.0.0	8.1.0
2000-03	U 1#38	CP-080019			AVP code reservation for TS 32.299 in Rel-8	0.0.0	0.1.0
		CP-080019		-	Wildcarded Public User Identities	ł	
		CP-080191		1	Correction on AVP code allocation reservation for TS 32.299 in	1	
				Ŀ	Rel-7]	
	<u> </u>	CP-080204		1	Correction on AVP code allocation reservation for TS 32.299	<u> </u>	
2008-06	CT#40	CP-080267		1	A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-09	CT#41	CP-080456			Emergency Public User Identity Removal	8.2.0	8.3.0
2008-09	CT#41	CP-080460		1	Support of "Loose-Route" indication from HSS]	
2008-09	CT#41	CP-080460		1	STaMIP Application Id]	
2008-09	CT#41	CP-080463	10400		Cx Impacts of IMS Restoration Procedures (New AVP Codes		i

					Assignment)	<u> </u>	
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			Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42 CT#43	CP-080691			Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0 8.5.0
2009-03 2009-03	CT#43	CP-090044 CP-090044			Update for ReadyForSM Handling LCS Subscription Data	8.4.0 8.4.0	8.5.0
2009-03	CT#43	CP-090044		1	Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033		2	Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024			AVP codes for S9 protocol	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Location of Permanent Failure result code range for the S9 application	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0141		AVPs for TS 29.273	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299		4	Update of the AVP Codes	8.5.0	8.6.0
		CP-090299			AVP code reservation for TS 32.299	ļ	
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"	ļ	
	1		0146		Removal of Requesting Node Type from AIR	1	
		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	4	
		CP-090531			Update of the AVP type for the User-Id	1	
0000 00	OT#45	CP-090531			Trace Depth per session	0.7.0	0.00
2009-09	CT#45	CP-090557		4	AVP code range for charging	8.7.0	9.0.0
2009-12	CT#46	CP-090800 CP-091032		1	ICS-Flag From GMLC-Address to GMLC-Number	9.0.0	9.1.0
		CF-091032	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			Wildcarded Public Identity	9.1.0	9.2.0
		CP-100034			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 AVPs in 29.272 for TADS support		
		CP-100048 CP-100040		1	Error codes in 29.272 for Unknown MME	-	
		CP-100236		4	EPS Subcsriber State and Location Information Request	1	
		CP-100033			One time notification AVP allocation		
	Î	CP-100046			Addition of the LCS-QoS-Class attribute value		
		CP-100175	0182		Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
2010-06	CT#48	CP-100263			AVP Codes for PCC	9.2.0	9.3.0
			0183		EPS state and location retrieval		
		CP-100287			SGmb Application ID	_	
2010.00	CT#49	CP-100277 CP-100463			New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.0
2010-09	C1#49	CP-100464		1	interfaces AVP Codes Allocation for PCC	9.3.0	9.4.0
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	1	
		CP-100466			AVP for Update-Eff feature		
2010-12	CT#50	CP-100699	0205		Enhanced SRVCC Subscriber Data	10.0.0	10.1.0
		CP-100687			Allocate codes for AVPs on eMPS		
		CP-100683			Allocate codes for AVPs on LIPA		
		CP-100688			Periodic TAU/RAU timer in HSS subscription		
2011 02	CT#54	CP-100846		1	S6a Error Diagnostic	10.1.0	10.00
2011-03	CT#51	CP-110051 CP-110054			PDP-Address correction Essential correction on the value type of the ELP Application AVPs	10.1.0	10.2.0
		CP-110054 CP-110087		2	Minimization of Drive Tests (MDT)	+	
		CP-110087			Relay Node Indicator AVPs	1	
2011-06	CT#52	CP-110349			Handling of RTR for Emergency Registration	10.2.0	10.3.0
	<u>-</u>	CP-110347			Add AVPs from QSPEC cleanup	1	1.3.3
	İ	CP-110359			MIPv4 security parameters on the STa and S6b interfaces	1	
		CP-110380			MDT user consent	1	
		CP-110370	0223		AVP Code Allocation for Pre-paging		
		CP-110375			PUR-Flags AVP		
2011-09		10D 440FF0	10236	11	AVP code alignment with 29.212	110 3 0	10.4.0
2011-09	CT#53	CP-110559				10.5.0	
2011-09	CT#53	CP-110559 CP-110555 CP-110554	0239	1	AVP code alignment with 32.299 AVP code alignment with 29.214	10.3.0	

		CP-110555	0252		Failure code and AVP code alignment with 29.212	7	1
		CP-110722		2	Priviledged sender		
2011-09	CT#53	CP-110584		1	Add vSRVCC updates to the Diameter AVP code table	10.4.0	11.0.0
		CP-110579 CP-110555			AVP code alignment with 32.299 AVP code reservation for 29.212	-	
2011-12	CT#54	CP-110333		1	SWx Restoration AVPs	11.0.0	11.1.0
	00.	CP-110812			Sy and Sd Application IDs		
	ļ	CP-110775			New AVP codes for MBMS IP unicast encapsulation]	ļ
		CP-110775			New AVP codes for MBMS IP multicast encapsulation		
		CP-110786		1	MME-Realm AVP code allocation	_	
		CP-110811 CP-110781		1	Equivalent PLMN CSG Subscription Request Restoration of Wildcarded-IMPU AVP	-	}
2012-03	CT#55	CP-120025		1	Codes Allocation for AVPs on Initial Attach	11.1.0	11.2.0
		CP-120038			New AVP codes for Absolute Time of MBMS Data Transfer over SGmb		
2012-06	CT#56	CP-120038 CP-120240			Allocating Diameter AVP codes for TS 29.219 and TS 29.212 Codes Allocation for AVPs on NPLI	11.2.0	11 3 0
2012 00	01//00	CP-120238			Adding new Diameter AVPs to Diameter table to support Trusted	- 11.2.0	11.0.0
		00 100005	2000		WLAN Access feature		
		CP-120225 CP-120251			Trust Relationship Indication Corrections to reference titles	-	
		CP-120251			Diameter Code Allocation for TS 29.219	-	ļ
		CP-120247			Network Name AVP codes		
		CP-120219			Duplicated AVP names	1	
2012-09	CT#57	CP-120481			PS additional number allocation	11.3.0	11.4.0
		CP-120473		_	SMS in MME/SGSN		
		CP-120461			AAA Failure Recovery AVP codes		ļ
		CP-120474 CP-120480			Transport Access Type AVP for BBAI Local Time Zone	-	ļ
		CP-120480 CP-120472			Allocating Application Identifier and command code for Tsp	-	
		01-120472	0300	_	interface		
		CP-120472	0309	-	Application Identifier, Command Codes and AVP range for S6m interface		
		CP-120667	0312	1	GMLC-Name	1	
			0313	1	Reference list correction to align with the corrected TS 29.212 title	1	Ì
2012-12	CT#58	CP-120731			T4 device triggering via IMS	11.4.0	11.5.0
		CP-120731			Codes and Identifier Allocation for T4 Specification	_	
		CP-120731 CP-120731			AVP Code Allocation for 29.336 Diameter AVP code value allocation in TS 29.368	-	ł
		CP-120731			Application Identifier, Command Codes and AVP codes for SGd,	-	
		CP-120716	0324	1	S6c AVP name modification in TS 32.299	_	
		CP-120742	0325	-	UE Time Zone AVP		
		CP-120741		1	Use of Flag instead of Enumerated AVPs		
		CP-120741		-	Use of Flag instead of Enumerated AVPs	_	
		CP-120743 CP-120743		-	PSI direct routing with restoration procedures		
2013-03	CT#59			4		-	ł
20.00				1.1	EPS LocationInformation Support Diameter error code for TS 29 219	11.5.0	11.6.0
		CP-130026 CP-130026	0334		Diameter error code for TS 29.219 MDT parameters	11.5.0	11.6.0
2013-03	CT#59	CP-130026	0334 0336	-	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface	11.5.0	
	CT#59	CP-130026 CP-130026 CP-130156 CP-130030	0334 0336 0337 0341	- 1 -	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message	11.6.0	12.0.0
2013-03 2013-06		CP-130026 CP-130026 CP-130156 CP-130030 CP-130288	0334 0336 0337 0341 0362	- 1 - 1	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP		12.0.0
	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298	0334 0336 0337 0341 0362 0360	- 1 - 1	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219	11.6.0	12.0.0
	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292	0334 0336 0337 0341 0362 0360 0358	- 1 - 1 -	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs	11.6.0	12.0.0
	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279	0334 0336 0337 0341 0362 0360 0358 0354	- 1 - 1 - -	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring	11.6.0	12.0.0
	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292	0334 0336 0337 0341 0362 0360 0358 0354 0363	- 1 - 1 - - 1	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP	11.6.0	12.0.0
	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130292 CP-130292 CP-130279 CP-130380 CP-130291	0334 0336 0337 0341 0362 0360 0358 0354 0363	- 1 - 1 - - 1 - 2	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface	11.6.0	12.0.0
	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130299 CP-130297 CP-130291 CP-130291 CP-130297	0334 0336 0337 0341 0362 0360 0358 0354 0363 0348	- 1 - 1 - - 1 - 2	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier	11.6.0	12.0.0
	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130292 CP-130292 CP-130291 CP-130291 CP-130297 CP-130297 CP-130374	0334 0336 0337 0341 0362 0360 0358 0354 0363 0348	- 1 - 1 - - 1 - 2	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh	11.6.0	12.0.0
	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130292 CP-130292 CP-130297 CP-130380 CP-130291 CP-130297 CP-130374 CP-130295	0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344	- 1 - 1 - - 1 - 2	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures	11.6.0	12.0.0
2013-06	CT#59 CT#60	CP-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130292 CP-130297 CP-130380 CP-130297 CP-130374 CP-130378 CP-130378	0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349	- 1 - 1 - - 1 - 2	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements	11.6.0	12.0.0
	CT#59	CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130292 CP-130292 CP-130297 CP-130380 CP-130291 CP-130297 CP-130374 CP-130295	0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349	- 1 - 1 - - 1 - 2 1 1 - 1 - 2	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures	11.6.0	12.0.0
2013-06	CT#59 CT#60	CP-130026 CP-130156 CP-130156 CP-130288 CP-130298 CP-130292 CP-130297 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454	0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349	- 1 - 1 - - 1 - 2 1 1 - - 1 - 1 - 2	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215	11.6.0	12.0.0
2013-06	CT#59 CT#60	CP-130026 CP-130156 CP-130156 CP-130288 CP-130298 CP-130297 CP-130380 CP-130297 CP-130374 CP-130378 CP-130378 CP-130454 CP-130461	0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349	- 1 - 1 - - 1 - 2 1 1 - - 1 - 1 - 2	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment-	11.6.0	12.0.0 12.1.0
2013-06 2013-09 2013-09	CT#59 CT#60 CT#61	CP-130026 CP-130026 CP-130156 CP-130288 CP-130298 CP-130297 CP-130380 CP-130297 CP-130374 CP-130295 CP-130378 CP-130460 CP-130460	0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0364 0366 0368	- 1 - 1 - - 1 - 2 1 1 - - 1 - 1 - 2	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment-Request/Answer corrected	11.6.0	12.0.0 12.1.0 12.2.0
2013-06	CT#59 CT#60	CP-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130292 CP-130297 CP-130297 CP-130297 CP-130374 CP-130297 CP-130374 CP-130460 CP-130460 CP-130460	0334 0336 0337 0341 0362 0360 0358 0354 0347 0345 0344 0349 0366 0368	- 1 - 1 - 2	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment-Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN	11.6.0	12.0.0 12.1.0 12.2.0
2013-06 2013-09 2013-09	CT#59 CT#60 CT#61	CP-130026 CP-130026 CP-130030 CP-130030 CP-130298 CP-130299 CP-130279 CP-130297 CP-130297 CP-130374 CP-130295 CP-130460 CP-130460 CP-130460 CP-130624 CP-130631	0334 0336 0337 0341 0362 0360 0358 0354 0347 0345 0344 0364 0366 0368	- 1 - 1 - 2	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected 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 12.2.0
2013-06 2013-09 2013-09	CT#59 CT#60 CT#61	CP-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130292 CP-130297 CP-130297 CP-130297 CP-130374 CP-130297 CP-130374 CP-130460 CP-130460 CP-130460	0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0366 0368	- 1 - 1 - 2 - 1 1 1	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment-Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN	11.6.0	12.0.0 12.1.0 12.2.0
2013-06 2013-09 2013-09	CT#59 CT#60 CT#61	CP-130026 CP-130026 CP-130156 CP-130288 CP-130298 CP-130299 CP-130297 CP-130291 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130460 CP-130605	0334 0336 0337 0341 0362 0360 0358 0354 0348 0347 0345 0344 0366 0368 0368	- 1 - 1 - 2 - 1 1 1	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected 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 29.212	11.6.0	12.0.0 12.1.0 12.2.0
2013-06 2013-09 2013-09	CT#59 CT#60 CT#61	CP-130026 CP-130026 CP-130030 CP-130030 CP-130298 CP-130299 CP-130279 CP-130297 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130460 CP-130600 CP-130600	0334 0336 0337 0341 0362 0360 0358 0354 0348 0347 0345 0344 0349 0366 0368 0369 0370 0371 0376 0378	- 1 - 1 - 1 - 1 1 1 1 1 1 1 1 1 1	Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected 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 12.2.0	12.0.0 12.1.0 12.2.0 12.2.1 12.3.0

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2014-06	CT#64	CP-140211			Protocol enhancements to indicate support of device recall and	12.4.0	12.5.0
		OD 440054	0.400		replace by SMS-SC	4	
		CP-140251 CP-140257			AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition	4	
		CP-140257			Definition of AVPs for Network Location in TWLAN	1	
		CP-140236			TWAN-BSSID AVP re-naming	1	
		CP-140247			New AVPs for Trusted WLAN access	1	
		CP-140231	0390	1	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	<u> </u>	
		CP-140505			New AVPs for Trusted WLAN access	1	
		CP-140506			P-CSCF Restoration indication	4	
		CP-140516 CP-140513			Closing TS 29.234 and reused AVP in TS 29.273 Identification of the HSS	-	
		01 -140515	0400	ļ	Editorial: WLAN-offloadability AVP codes added as in CR C4-	1	
					141648.		
014-12	CT#66	CP-140785	0409	1	New AVP for MBMS restoration	12.6.0	12.7.0
			0430	-	New Diagnostic-Info AVP for MBMS restoration]	
			0410		WLCP key for WLCP signalling protection	<u> </u>	
			0411		Reset-ID		
			0416	_	Code definitions for 32.299	4	
			0428		Removal of I-WLAN AVPs Reference correction	4	
	-		0429 0433		Code allocation for 29.212	┪	
			0433		MDT PLMN List	†	
	}		0410		Codes Allocation for PC2 Protocol	1	
			0423	_	Codes Allocation for PC4a Protoco	i i	
			0431		Allocation of values for Application ID, Command codes, AVP	1	
					codes and Experimental-Result codes used in the TS 29.345	<u> </u>	
			0434	1	Command Code and Error Code for ProSe Initial Location		
			0.405		Information Retrieval	4	
			0425 0426		Corrections of the type of some AVPs OFR-Flags AVP code	-	
	}		0420		P-CSCF Restoration mechanism new error	┨	
2015-03	CT#67	CP-150015			Renaming of Location-Type AVP	12.7.0	12.8.0
.0.000	0 0 .		0437		Location reporting in emergency 1xSRVCC	1.20	
			0435		AVP codes for GCSE MB2-C	1	
	ĺ		0442		New AVPs and range of transient failure result codes in TS 29.214	1	
			0438	1	Allocation of code for Authorized-Discovery-Range AVP (TS	1	
					29.344)		
			0440		Location Update Trigger	1	
	1		0441 0443		AVP codes allocation for Validity related AVPs for TS 29.345	4	
2015-03	CT#67	CP-150039		_	Allocation of codes for the Integrity Checks. Aspect AVPs Diameter Application Identifier for Np protocol	12.8.0	13 0 (
2015-06		CP-150257	0450	1	AVP code allocation for Match Refresh Timer AVP in TS 29.345	13.0.0	
.010 00	01//00	CP-150247			Wrong CR implementation of CR 0416r1	10.0.0	10.1.0
	Ì	CP-150249			AVP code allocation for 32.299	1	
		CP-150263	0452	1	AVP codes for Access Restriction Data per PLMN]	
		CP-150372			IP-SM-GW-Realm		
2015-09	CT#69	CP-150454			Subscription data for extended buffering at the SGW	13.1.0	13.2.0
		CP-150442			Overlapping transaction over S6b	1	
	}	CP-150453			Addition of IMSI Group Id AVP definition	-	
	}	CP-150449 CP-150431			Addition of CP parameter AVP definition AVP codes for TS 29 212	1	
	}	CP-150431 CP-150456			AVP codes for TS 29.212 AVP definiton for S6t	┧	
015-12	CT#70	CP-150456			Addition of MBMS-Cell-List AVP	13.2.0	13 3 (
.01012	31,110	CP-150778			S6t Application ID and Command Codes	10.2.0	10.0.
	-	CP-150778			Bitmask to inform the SCEF of the Monitoring capabilities	1	
		CP-150778			AVP codes for MONTE T6a/b interface	ĺ	
		CP-150778			Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-	1	
					Deletion data types	Ţ	
		CP-150778	0494	2	Definition of AVP for deletion of all Monitoring events assigned to a		
		00.45055	0501	<u> </u>	subscriber (UE)	1	
	ļ	CP-150778			Definition of AVP SCEF-ID	4	
	}	CP-150778			Service result per Event configuration	4	
		CP-150770 CP-150776			Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not	4	
		CP-150//6	04/6	-	reachable due to power saving		
		1		!		┥	
		CP-150776	0497	11	Mobile Terminating SMS bandling for extended Idle mode 116 x		
		CP-150776 CP-150776			Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX –	1	
		CP-150776 CP-150776			Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option		·
			0498 0477	1	Mobile Terminating SMS handling for extended Idle mode DRX –		

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		CP-150772		-	Addition of AVPs and result-codes	ļ	
		CP-150772		-	Addition of AVP used in match report procedure for eProSe-Ext-CT	ļ	
		CP-150754		1	Allowed WAF and/or WWSF Identities	ļ	
		CP-150773		-	Add the default access type to 3GPP specific AVP	Į	
		CP-150781		1	AVP code allocation for "UE Usage Type"	Į	
		CP-150755		-	Metadata in Match-Report	J	
		CP-150755	0488	-	New Group AVP for ProSe direct discovery procedures		
		CP-150771	0492	1	Definition of AVP for AESE-CT		
		CP-150771	0496	1	Command codes and AVP range for TS 29.154 and TS 29.153		
İ		CP-150776	0495	1	AVP codes for Indoor Positioning support in SLg/Lgd	ĺ	
2016-03	CT#71	CP-160041	0503	-	Application ID for St	13.3.0	13.4.0
Ì		CP-160041	0506	1	Correction on TS numbers	ĺ	
Ì		CP-160041			AVPs for the Rx Diameter application	ĺ	
Ì		CP-160041			AVP code reservation for 32.299	Ì	
		CP-160041			Codes for 29.212	ł	
ŀ		CP-160029			New AVP assignment for MONTE	ł	
		CP-160029			Change of type of Monitoring-Duration AVP to represent an	ł	
		C1 -100029	0303	-	absolute time		
		CP-160035	0507		Remove the default access AVP	}	
		CP-160035		-	Specific AVP codes for NBIFOM	}	
		CP-160033		-	Alert procedure from MME/SGSN to SMS-GMSC for MT SMS to	}	
		CP-160030	0511	-			
		CD 400007	0540	-	UE using eDRX	}	
		CP-160037		-	ePDG retrieval of WLAN Location Information	 	
		CP-160033	0513	2	Definition of AVP Authorization of NIDD	ļ	
		CP-160033			New PDN-Type for Cellular IoT	ļ	
		CP-160036			Monitoring update and Reporting of update result	ļ	
		CP-160036	0519	3	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			Cleanup up on MONTE AVP's		13.5.0
2016-06	CT#72	CP-160228			NIDD authorisation update		13.5.0
2016-06	CT#72	CP-160228		-	IANA Command Code Registration		13.5.0
2016-06	CT#72	CP-160228		1	CloT new commands and Diameter error		13.5.0
2016-06	CT#72	CP-160228			Serving PLMN Rate Control		13.5.0
2016-06	CT#72	CP-160228			New AVP for APN Rate Control		13.5.0
2016-06	CT#72	CP-160227			IANA assigned application Id and command code values		13.5.0
2016-06	CT#72	CP-160227			Allocation of AVP codes and Experimental Result codes for		13.5.0
2010 00	011112	01 100221	0024	ľ	Diameter Data Management application	10.4.0	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		<u> </u>	AVP code range 3900-3999		13.5.0
2016-06	CT#72	CP-160236		1	New AVPs in TS 29.214		13.5.0
2016-06	CT#72	CP-160236		<u> </u>	AVP codes for 29.212		13.5.0
2016-06	CT#72	CP-160232		2	AVP Codes for 29.343		13.5.0
2016-06	CT#72	CP-160232			Assignment of application ID and command code for PC2 reference		
2010-00	C1#12	CF-160232	0329	ı	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	13.5.0
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2016-06	CT#72	CP-160232			Reserved Experimental Result Codes for TS 29.343		13.5.0
2016-06	CT#72	CP-160233		ļ	Renaming of Validity-Time AVP		13.5.0
2016-06	CT#72	CP-160233		_	New AVPs allocated for 29.153 and 29.154		13.5.0
2016-06	CT#72	CP-160231	0552	1	3GPP specific AVP for NBIFOM	13.4.0	13.5.0

History

	Document history							
V13.3.0	March 2016	Publication						
V13.4.0	April 2016	Publication						
V13.5.0	August 2016	Publication						