ETSI TS 129 230 V13.4.0 (2016-04)



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 13.4.0 Release 13)



Reference RTS/TSGC-0429230vd40 Keywords GSM,LTE,UMTS

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Foreword

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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

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

[16]

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*.

receise as n	ie 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".
[1.6]	CORP. TO COLUMN TO A COLUMN TO

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".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply.

3GPP specific: A definition which is used in conjunction with the 3GPP"s vendor identifier.

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AVP Attribute-Value-Pair CR Change Request

IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

The Diameter applications are identified with the application identifiers as specified in the RFC 3588 [9]. There are two kind of applications: IETF standards track applications and vendor specific applications. All application identifiers are assigned by IANA [12]. This chapter lists the application identifiers assigned by IANA to all 3GPP Diameter applications.

The application identifiers are transferred in Diameter command"s header in the Application-ID field.

4.1 3GPP specific application identifiers

The 3GPP specific application identifiers allocated by IANA are listed in the following table.

Table 4.1: 3GPP specific application identifiers

Application identifier	Application	3GPP TS
16777216	3GPP Cx/Px	29.228 [1] and 29.229 [2]
16777217	3GPP Sh/Ph	29.328 [3] and 29.329 [4]
16777218	3GPP Re	32.296 [14]
16777219	3GPP Wx	29.234 [6]
16777220	3GPP Zn	29.109 [7]
16777221	3GPP Zh	29.109 [7]
16777222	3GPP Gq	29.209 [8]
16777223	3GPP Gmb	29.061 [13]
16777224	3GPP Gx	29.210 [15]
16777225	3GPP Gx over Gy	29.210 [15]
16777226	3GPP MM10	29.140 [16]
16777229	3GPP Rx	29.211 [17]
16777230	3GPP Pr	29.234 [6]
16777236	3GPP Rx	29.214 [18]
16777238	3GPP Gx	29.212 [19]
16777250	3GPP STa	29.273 [20]
16777251	3GPP S6a	29.272 [21]
16777252	3GPP S13/S13"	29.272 [21]
16777255	3GPP SLg	29.172 [24]
16777264	3GPP SWm	29.273 [20]
16777265	3GPP SWx	29.273 [20]
16777266	3GPP Gxx	29.212 [19]
16777267	3GPP S9	29.215 [22]
16777268	3GPP Zpn	29.109 [7]
16777272	3GPP S6b	29.273 [20]
16777291	3GPP SLh	29.173 [25]
16777292	3GPP SGmb	29.061 [13]
16777302	3GPP Sy	29.219 [26]
16777303	3GPP Sd	29.212 [19]
16777308	3GPP S7a	29.272 [21]
16777309	3GPP Tsp	29.368 [27]
16777310	3GPP S6m	29.336 [28]
16777311	3GPP T4	29.337 [29]
16777312	3GPP S6c	29.338 [30]
16777313	3GPP SGd	29.338 [30]
16777318	3GPP S15	29.212 [19]
16777319	3GPP S9a	29.215 [22]
16777320	3GPP S9a*	29.215 [22]
16777335	3GPP MB2-C	29.468 [31]
16777336	3GPP PC4a	29.344 [33]
16777337	3GPP PC2	29.343 [32]
16777340	3GPP PC6/PC7	29.345 [34]
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]
16777yyy	3GPP PC2	29.343 [32]

5 Command codes

The command codes are used for communicating the command associated with the Diameter message. The command code is carried in the Diameter header"s Command-Code field. The command codes can be divided into standard command codes allocated by IANA and experimental command codes for testing purposes only.

5.1 Command codes allocated for 3GPP

Based on the IETF RFC 3589 [10] the IANA has allocated a standard command code range 300 - 313 for 3GPP. The command codes are presented in the following table.

Table 5.1/1: Command code values allocated for 3GPP

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

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
8388620	Provide-Location-Request/Answer	PLR/PLA	
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	29.212 [19]
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	00.070.041
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]
8388xxx	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	00.400.75.7
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	20 242 [22]
8388xxx	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	20.452 [27]
8388725	Network-Status-Continuous-Report- Request/Answer	NCR/NCA	29.153 [37]
8388723	Background-Data-Transfer- Request/Answer	BTR/BTA	29.154 [38]

6 Vendor identifier

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

6.1 3GPP"s vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
102	3GPP-WLAN-QoS-Filter-Support	OctetString	1
Note:	The AVP codes from 1 to 255 are reserved for backwards compatibility	ty with 3GPP RADIUS Ve	ndor Specific
Attribu	ites (See TS 29.061 [13] and TS 29.234 [6])		•
Note:	The AVP codes from 256 to 299 are reserved for future use.		
300	Authentication-Method	Enumerated	
301	Authentication-Information-SIM	OctetString	
302	Authorization -Information-SIM	OctetString	
303	WLAN-User-Data	Grouped	
304	Charging-Data	Grouped	
305	WLAN-Access	Enumerated	
306	WLAN- 3GPP-IP-Access	Enumerated	
	APN-Authorized	Grouped	
308	APN-Id	•	
309	APN-Barring-Type	Enumerated	20 224 [6]
	WLAN-Direct-IP-Access	Enumerated	29.234 [6]
311	Session-Request-Type	Enumerated	
	Routing-Policy	IPFilterRule	
	Max-Requested-Bandwidth	OctetString	1
314	Charging-Characteristics	Integer	
	Charging-Nodes	Grouped	
	Primary-OCS-Charging-Function-Name	DiameterIdentity	
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
	3GPP-AAA-Server-Name	DiameterIdentity	
	Maximum-Number-Accesses	Unsigned32	
	: The AVP codes from 320 to 399 are reserved for TS 29.234	 	•
Note 2	2: The 3GPP-AAA-Server-Name definition is moved to TS 29.273 star	ting from Rel-12.	
	GBA-UserSecSettings	OctetString	
	Transaction-Identifier	OctetString	
	NAF-Hostname	OctetString	
	GAA-Service-Identifier Key-ExpiryTime	OctetString Time	
405	ME-Key-Material	OctetString	-
	UICC-Key-Material	OctetString	1
407	GBA_U-Awareness-Indicator	Enumerated	
	BootstrapInfoCreationTime	Time	
409	GUSS-Timestamp	Time	
	GBA-Type	Enumerated	29.109 [7]
	UE-Id UE-Id-Type	OctetString Enumerated	_
412	UICC-App-Label	OctetString	+
	UICC-ME	Enumerated	1
415	Requested-Key-Lifetime	Time	1
416	Private-Identity-Request	Enumerated	
	GBA-Push-Info	OctetString	1
418	NAF-SA-Identifier	OctetString	-
	Security-Feature-Request Security-Feature-Response	OctetString OctetString	4
	The AVP codes from 421 to 499 are reserved for TS 29.109	OctetString	
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	+
	Access-Network-Charging-Address Access-Network-Charging-Identifier	Grouped	+
	Access-Network-Charging-Identifier Access-Network-Charging-Identifier-Value	OctetString	29.209 [8],
	<u> </u>		29.211 [17] ,
	AF-Application-Identifier	OctetString	29.214 [18]
	Ar-Charging-Identifier	OctetString	-
	Authorization-Token	OctetString	4
507	Flow-Description	IPFilterRule	

508 Flow-Mumber				
Flow Status				
File Flow-Status				
Specific-Action				
Si-14 Max-Requested-Bandwidth DL				
September Sept				
Max-Requested-Bandwidth-UL				
Media-Component-Description Grouped				
Media-Component-Number				
Media-Sub-Component AVP Grouped				
September Sept				
September Sept				
Separation Unsigned32				
SIP-Forking-Indication				
Codec-Data OctelString			<u> </u>	
Service-URN				
Acceptable-Service-Info				
Sezvice-Info-Status Enumerated				
MPS-Identifier				
AF-Signalling-Protocol Enumerated Sponsored-Connectivity-Data Grouped Groupe				
Sponsorted-Connectivity-Data Grouped				
Soonsor-Identity OctelString				
Application-Service-Provider-Identity OctetString				
Ray-Requested-Bandwidth-DL Unsigned32				
534 Min-Requested-Bandwidth-DL Unsigned32 535 Min-Requested-Bandwidth-UL Unsigned32 536 Required-Access-Info Enumerated 537 IP-Domain-Id OctetString 538 GCS-Identifier OctetString 539 Sharing-Key-DL Unsigned32 540 Sharing-Key-UL Unsigned32 541 Retty-Interval Unsigned32 542 Sponsoring-Action Enumerated 543 Max-Supported-Bandwidth-DL Unsigned32 544 Max-Supported-Bandwidth-DL Unsigned32 545 Min-Desired-Bandwidth-DL Unsigned32 546 Min-Desired-Bandwidth-DL Unsigned32 546 Min-Desired-Bandwidth-DL Unsigned32 547 Min-Desired-Bandwidth-DL Unsigned32 548 Min-Desired-Bandwidth-DL Unsigned32 549 Min-Desired-Bandwidth-DL Unsigned32 540 Min-Desired-Bandwidth-DL Unsigned32 541 Min-Desired-Bandwidth-DL Unsigned32 542 Min-Desired-Bandwidth-DL Unsigned32 543 Min-Desired-Bandwidth-DL Unsigned32 544 Max-Supported-Bandwidth-DL Unsigned32 545 Min-Desired-Bandwidth-DL				
Min-Requested-Bandwidth-UL			Unsigned32	
Factor F				
P-Domain-Id OctetString				
Sasa GCS-Identifier OctetString			OctetString	
Sharing-Key-UL	538	GCS-Identifier		
Retry-Interval Unsigned32	539	Sharing-Key-DL	Unsigned32	
Sponsoring-Action			Unsigned32	
543 Max-Supported-Bandwidth-DL Unsigned32 544 Max-Supported-Bandwidth-DL Unsigned32 545 Min-Desired-Bandwidth-DL Unsigned32 546 Min-Desired-Bandwidth-DL Unsigned32 Note: The AVP codes from 547 to 599 are reserved for TS 29.209, TS 29.211 and TS 29.214 OctetString 600 Visited-Network-Identifier OctetString 601 Public-Identity UTF8String 602 Server-Name UTF8String 603 Server-Capabilities Grouped 604 Mandatory-Capability Unsigned32 605 Optional-Capability Unsigned32 606 User-Data OctetString 607 SIP-Number-Auth-Items Unsigned32 608 SIP-Authentication-Scheme UTF8String 609 SIP-Authentication OctetString 610 SIP-Authentication-Context OctetString 611 SIP-Authorization OctetString 612 SIP-Authorization-Context OctetString 613 SIP-Item-Number Unsigned32 614 Server-Assignment-Type	541	Retry-Interval	Unsigned32	
Max-Supported-Bandwidth-UL				
S45 Min-Desired-Bandwidth-DL			<u> </u>	
Note: The AVP codes from 547 to 599 are reserved for TS 29.209, TS 29.211 and TS 29.214 OctetString				
Note: The AVP codes from 547 to 599 are reserved for TS 29.209, TS 29.211 and TS 29.214				
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616 Reason-Code Enumerated 617 Reason-Info UTF8String 618 Charging-Information Grouped 619 Primary-Event-Charging-Function-Name DiameterURI 620 Secondary-Event-Charging-Function-Name DiameterURI 621 Primary-Charging-Collection-Function-Name DiameterURI 622 Secondary-Charging-Collection-Function-Name DiameterURI 623 User-Authorization-Type Enumerated				
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620Secondary-Event-Charging-Function-NameDiameterURI621Primary-Charging-Collection-Function-NameDiameterURI622Secondary-Charging-Collection-Function-NameDiameterURI623User-Authorization-TypeEnumerated				
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622 Secondary-Charging-Collection-Function-Name DiameterURI 623 User-Authorization-Type Enumerated				
623 User-Authorization-Type 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 SIP-Digest-Authenticate	UTF8String	
	Wildcarded-IMPU	Grouped UTF8String	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
	SCSCF-Restoration-Info	Grouped	
	Path	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	
	Identity-with-Emergency-Registration	Grouped	
	Priviledged-Sender-Indication	Enumerated	
	LIA-Flags	Unsigned32	
	Initial-CSeq-Sequence-Number	Unsigned32	
	SAR-Flags	Unsigned32	
	Allowed-WAF-WWSF-Identities	Grouped	
	WebRTC-Authentication-Function-Name	UTF8String	
	WebRTC-Web-Server-Function-Name	UTF8String	
	The AVP codes from 659 to 699 are reserved for TS 29.229.	3 33g	
	User-Identity	Grouped	
	MSISDN	OctetString	
702	User-Data	OctetString	
	Data-Reference	Enumerated	
704	Service-Indication	OctetString	
	Subs-Req-Type	Enumerated	
		Enamoratoa	
707	Requested-Domain	Enumerated	
707	Requested-Domain Current-Location		
708	Current-Location Identity-Set	Enumerated	
708 709	Current-Location Identity-Set Expiry-Time	Enumerated Enumerated Enumerated Time	
708 709 710	Current-Location Identity-Set Expiry-Time Send-Data-Indication	Enumerated Enumerated Enumerated Time Enumerated	
708 709 710 711	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag	Enumerated Enumerated Enumerated Time Enumerated OctetString	29.329 [4]
708 709 710 711 712	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated	29.329 [4]
708 709 710 711 712 713	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32	29.329 [4]
708 709 710 711 712 713 714	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated	29.329 [4]
708 709 710 711 712 713 714 715	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped	29.329 [4]
708 709 710 711 712 713 714 715 716	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped Unsigned32	29.329 [4]
708 709 710 711 712 713 714 715 716 717	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated	29.329 [4]
708 709 710 711 712 713 714 715 716 717	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated	29.329 [4]
708 709 710 711 712 713 714 715 716 717 718	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32	29.329 [4]
708 709 710 711 712 713 714 715 716 717 718 719	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags Call-Reference-Info	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Enumerated Enumerated Grouped Unsigned32 Grouped	29.329 [4]
708 709 710 711 712 713 714 715 716 717 718 719 720 721	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags Call-Reference-Info Call-Reference-Number	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Enumerated CotetString	29.329 [4]
708 709 710 711 712 713 714 715 716 717 718 719 720 721	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags Call-Reference-Info Call-Reference-Number AS-Number	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Enumerated Enumerated Grouped Unsigned32 Grouped	29.329 [4]
708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 Note:	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags Call-Reference-Info Call-Reference-Number AS-Number The AVP codes from 723 to799 are reserved for TS 29.329.	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Enumerated CotetString	29.329 [4]
708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 Note: Note:	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags Call-Reference-Info Call-Reference-Number AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299.	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Enumerated Enumerated OctetString OctetString	29.329 [4]
708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 Note: Note: 823	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags Call-Reference-Info Call-Reference-Number AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Enumerated Couped Unsigned32 Enumerated Enumerated Enumerated Unsigned32 Grouped OctetString OctetString	29.329 [4]
708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 Note: Note: 823 824	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags Call-Reference-Info Call-Reference-Number AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Grouped OctetString OctetString OctetString	
708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 Note: Note: 823 824 825	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags Call-Reference-Info Call-Reference-Number AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. Event-Type SIP-Method Event	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped UTF8String UTF8String	29.329 [4] 32.299 [5]
708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 Note: Note: 823 824 825 826	Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags Call-Reference-Info Call-Reference-Number AS-Number The AVP codes from 723 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method	Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Grouped OctetString OctetString OctetString	

828	Content-Disposition	UTF8String	
	Role-of-Node	Enumerated	
	User-Session-Id	UTF8String	
	Calling-Party-Address	UTF8String	
	Called-Party-Address	UTF8String	
	Time-Stamps	Grouped	
	SIP-Request-Timestamp	Time	
	SIP-Response-Timestamp	Time	
	Application-Server	UTF8String	
	Application-provided-called-party-address	UTF8String	
	Inter-Operator-Identifier	Grouped	
	Originating-IOI Terminating-IOI	UTF8String UTF8String	
	IMS-Charging-Identifier	UTF8String	
	SDP-Session-Description	UTF8String	
	SDP-Media-Component	Grouped	
	SDP-Media-Component	UTF8String	
	SDP-Media-Description	UTF8String	
	CG-Address	Address	
	GGSN-Address	Address	
	Served-Party-IP-Address	Address	
	Authorized-QoS	UTF8String	
	Application-Server-Information	Grouped	
	Trunk-Group-Id	Grouped	
	Incoming-Trunk-Group-Id	UTF8String	
853	Outgoing-Trunk-Group-Id	UTF8String	
	Bearer-Service	OctetString	
855	Service-Id	UTF8String	
	Associated-URI	UTF8String	
	Charged-Party	UTF8String	
	PoC-Controlling-Address	UTF8String	
	PoC-Group-Name	UTF8String	
	Cause	Grouped	
	Cause-Code	Integer32	
	Node-Functionality	Enumerated	
	Service-Specific-Data	UTF8String	
	Originator	Enumerated	
	PS-Furnish-Charging-Information PS-Free-Format-Data	Grouped OctetString	
	PS-Append-Free-Format-Data	Enumerated	
	Time-Quota-Threshold	Unsigned32	
	Volume-Quota-Threshold	Unsigned32	
	Trigger-Type	Enumerated	
	Quota-Holding-Time	Unsigned32	
	Reporting-Reason	Enumerated	
	Service-Information	Grouped	
	PS-Information	Grouped	
	Reserved	-	
	IMS-Information	Grouped	
	MMS-Information	Grouped	
	LCS-Information	Grouped	
	PoC-Information	Grouped	
	MBMS-Information	Grouped	
	Quota-Consumption-Time	Unsigned32	
	Media-Initiator-Flag	Enumerated	
	PoC-Server-Role	Enumerated	
	PoC-Session-Type	Enumerated	
	Number-Of-Participants	Unsigned32	
	Originator-Address	Grouped	
	Participants-Involved	UTF8String	
1 000	Expires	Unsigned32	
889	Message-Body	Grouped	
889 890	Message-Body Reserved	Grouped -	
889 890 891	Message-Body		

	Reserved	-	
	Reserved	-	
	Reserved	-	
	Reserved	-	
	Address-Data	UTF8String	
	Address-Domain	Grouped	
899	Address-Type	Enumerated	
000	TMGI	OctectString	
	Required-MBMS-Bearer-Capabilities	UTF8String	
901	MBMS-StartStop-Indication	Enumerated	
	MBMS-Service-Area	OctectString	
	MBMS-Session-Duration	Unsigned32	
	Alternative-APN	UTF8String	
	MBMS-Service-Type	Enumerated	
	MBMS-2G-3G-Indicator	Enumerated	
	MBMS-Session-Identity	OctetString	
909		UTF8String	
	Additional-MBMS-Trace-Info	OctetString	
	MBMS-Time-To-Data-Transfer	Unsigned32	
	MBMS-Session-Identity-Repetition-Number	Unsigned32	
	MBMS-Required-QoS	UTF8String	
	MBMS-Counting-Information	Enumerated	
915	MBMS-User-Data-Mode-Indication	Enumerated	
	MBMS-GGSN-Address	UTF8String	
917	MBMS-GGSN-IPv6-Address	UTF8String	29.061 [13]
	MBMS-BMSC-SSM-IP-Address	UTF8String	
	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	
	MBMS-GW-SSM-IPv6-Address	OctetString	
	MBMS-BMSC-SSM-UDP-Port	OctetString	
	MBMS-GW-UDP-Port MBMS-GW-UDP-Port-Indicator	OctetString Enumerated	
	MBMS-Data-Transfer-Start	Unsigned64	
	MBMS-Data-Transfer-Stop	Unsigned64	
	MBMS-Flags	Unsigned32	
	Restart-Counter	Unsigned32	
	Diagnostic-Info	Unsigned32	
	MBMS-Cell-List	OctetString	
	The AVP codes from 935 to 999 are reserved for TS 29.061		
	Bearer-Usage	Enumerated	
	Charging-Rule-Install	Grouped	
	Charging-Rule-Remove	Grouped	
	Charging-Rule-Definition	Grouped	
1004	Charging-Rule-Base-Name	UTF8String	
	Charging-Rule-Name	OctetString	
	Event-Trigger	Enumerated	
	Metering-Method	Enumerated	
	Offline	Enumerated	
	Online	Enumerated	
	Precedence	Unsigned32	29.212 [19]
	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	
	Bearer-Identifier Repres Operation	OctetString	
	Bearer-Operation	Enumerated	
1022	Access-Network-Charging-Identifier-Gx	Grouped	

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IPFilterRule
OctetString
Grouped
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OctetString
OctetString
Grouped
Enumerated
UTF8String
Grouped
Grouped
OctetString
Grouped
Address
Enumerated
Grouped
Unsigned32
Grouped
Enumerated
Grouped
OctetString
DiameterIdentity

1090 TDF-Destination-Realm	DiameterIdentity	
1091 TDF-IP-address	Address	
1092 ADC-Rule-Install	Grouped	
1093 ADC-Rule-Remove	Grouped	
1094 ADC-Rule-Definition	Grouped	
1095 ADC-Rule-Base-Name	UTF8String	
1096 ADC-Rule-Name	OctetString	
1097 ADC-Rule-Report	Grouped	
1098 Application-Detection-Information	Grouped	
1099 PS-to-CS-Session-Continuity	Enumerated	
Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212		
1100 Served-User-Identity	Groupe	
1101 VASP-ID	UTF8Str	
1102 VAS-ID	UTF8String	
1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address	Grouped	
1106 Result-Recipient-Address	Grouped	
1107 Sequence-Number	Unsigned32	
1108 Recipient-Address	UTF8String	
1109 Routeing-Address	UTF8String	29.140 [16]
1110 Originating-Interface	Enumerated	
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key	UTF8String	
1115 Billing-Information	UTF8String	
1116 Status	Grouped	
1117 Status-Code	UTF8String	
1118 Status-Text	UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name	UTF8String	
1200 Domain-Name 1201 Recipient-Address	Grouped	
1201 Necipient-Address 1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size	Unsigned32	
1207 Additional-Content-Information	Grouped	
1208 Addressee-Type	Enumerated	
1209 Priority	Enumerated	
1210 Message-ID	UTF8String	
1211 Message-Type	Enumerated	
1212 Message-Size	Unsigned32	
1213 Message-Class	Grouped	
1214 Class-Identifier	Enumerated	
1215 Token-Text	UTF8String	
1216 Delivery-Report-Requested	Enumerated	32.299 [5]
1217 Adaptations	Enumerated	32.233 [J]
1218 Applic-ID	UTF8String	
1219 Aux-Applic-Info	UTF8String	
1220 Content-Class	Enumerated	
1221 DRM-Content	Enumerated	
1222 Read-Reply-Report-Requested	Enumerated	
1223 Reply-Applic-ID	UTF8String	
1224 File-Repair-Supported	Enumerated	
1225 MBMS-User-Service-Type	Enumerated	
1226 Unit-Quota-Threshold	Unsigned32	
1227 PDP-Address	Address	
1228 SGSN-Address	Address	
1229 PoC-Session-Id	UTF8String	
1230 Deferred-Location-Even-Type	UTF8String	
1231 LCS-APN	UTF8String Crauped	
1232 LCS-Client-Id	Grouped	
1233 LCS-Client-Dialed-By-MS	UTF8String	

4224 LCC Client External ID	LITEOCtring	
1234 LCS-Client-External-ID	UTF8String	
1235 LCS-Client-Name	Grouped	
1236 LCS-Data-Coding-Scheme	UTF8String	
1237 LCS-Format-Indicator	Enumerated	
1238 LCS-Name-String	UTF8String	
1239 LCS-Requestor-Id	Grouped	
1240 LCS-Requestor-Id-String	UTF8String	
1241 LCS-Client-Type	Enumerated	
1242 Location-Estimate	OctetString	
1243 Location-Estimate-Type	Enumerated	
1244 Location-Type	Grouped	
1245 Positioning-Data	UTF8String	
1246 Reserved	-	
1247 PDP-Context-Type	Enumerated	
1248 MMBox-Storage-Requested	Enumerated	
1249 Service-Specific-Info	Grouped	
1250 Called-Asserted-Identity	UTF8String	
1251 Requested-Party-Address 1252 PoC-User-Role	UTF8String Crouped	
	Grouped	
1253 PoC-User-Role-IDs	UTF8String	
1254 PoC-User-Role-info-Units	Enumerated	
1255 Talk-Burst-Exchange	Grouped	
1256 Service-Generic-Information	Grouped	
1257 Service-Specific-Type	Unsigned32	
1258 Event-Charging-TimeStamp	Time	
1259 Participant-Access-Priority	Enumerated	
1260 Participant-Group	Grouped	
1261 PoC-Change-Conditions	Enumerated	
1262 PoC-Change-Time	Time	
1263 Access-Network-Information	OctetString	
1264 Trigger	Grouped	
1265 Base-Time-Interval	Unsigned32	
1266 Envelope	Grouped	
1267 Envelope-End-Time	Time	
1268 Envelope-Reporting	Enumerated	
1269 Envelope-Start-Time	Time	
1270 Time-Quota-Mechanism	Grouped	
1271 Time-Quota-Type	Enumerated	
1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps	Grouped	
1274 SDP-Offer-Timestamp	Time	
1275 SDP-Answer-Timestamp	Time	
1276 AF-Correlation-Information	Grouped	
1277 PoC-Session-Initiation-type	Enumerated	
1278 Offline-Charging	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299		
1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	
1403 Software-Version	UTF8String	
1404 QoS-Subscribed	UTF8String	29.272 [21]
1405 ULR-Flags	Unsigned32	[-·]
1406 ULA-Flags	Unsigned32	
1407 Visited PLMN Id		
	OctotString	
1408 Requested-EUTRAN-Authentication-Info	OctetString Grouped	

1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped
1410 Number-Of-Requested-Vectors	Unsigned32
1411 Re-Synchronization-Info	OctetString
1412 Immediate-Response-Preferred	Unsigned32
1413 Authentication-Info 1414 E-UTRAN-Vector	Grouped
1414 E-01 RAN-Vector 1415 UTRAN-Vector	Grouped
1416 GERAN-Vector	Grouped
1416 GERAN-Vector 1417 Network-Access-Mode	Grouped Enumerated
1417 Network-Access-wode 1418 HPLMN-ODB	Enumerated
1419 Item-Number	Unsigned32
1420 Cancellation-Type	Enumerated
1421 DSR-Flags	Unsigned32
1422 DSA-Flags	Unsigned32
1423 Context-Identifier	Unsigned32
1424 Subscriber-Status	Enumerated
1425 Operator-Determined-Barring	Unsigned32
1426 Access-Restriction-Data	UTF8String
1427 APN-OI-Replacement	UTF8String
1428 All-APN-Configurations-Included-Indicator	Enumerated
1429 APN-Configuration-Profile	Grouped
1430 APN-Configuration	Grouped
1431 EPS-Subscribed-QoS-Profile	Grouped
1432 VPLMN-Dynamic-Address-Allowed	Enumerated
1433 STN-SR	OctetString
1434 Alert-Reason	Enumerated
1435 AMBR	Grouped
1436 CSG-Subscription-Data	Grouped
1437 CSG-Id	Unsigned32
1438 PDN-GW-Allocation-Type	Enumerated
1439 Expiration-Date	Time
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32
1441 IDA-Flags	Unsigned32
1442 PUA-Flags	Unsigned32
1443 NOR-Flags	Unsigned32
1444 User-Id	UTF8String
1445 Equipment-Status	Enumerated
1446 Regional-Subscription-Zone-Code	OctetString
1447 RAND	OctetString
1448 XRES	OctetString
1449 AUTN	OctetString
1450 KASME	OctetString
1451 Reserved	-
1452 Trace-Collection-Entity	Address
1453 Kc	OctetString
1454 SRES	OctetString
1455 Reserved	-
1456 PDN-Type	Enumerated
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated
1458 Trace-Data	Grouped
1459 Trace-Reference	OctetString
1460 Reserved	-
1461 Reserved	-
462 Trace-Depth	Enumerated
463 Trace-NE-Type-List	OctetString
464 Trace-Interface-List	OctetString
465 Trace-Event-List	OctetString
1466 OMC-Id	OctetString
1467 GPRS-Subscription-Data	Grouped
1400 Operation Date List to alcohold to disease	Enumerated
1468 Complete-Data-List-Included-Indicator	
1469 PDP-Context	Grouped
1469 PDP-Context 1470 PDP-Type	OctetString
1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID	OctetString OctetString
1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info	OctetString

1474 G.M.CNumber
1476 SS-Code
1477 SS-Status
1478 Notification-To-UE-User
1479 External-Client Grouped
1480 Client-Identity
1481 GMLC-Restriction
1482 PLMN-Client Enumerated
1483 Service-Type
1484 ServiceTypeIdentity
1484 ServiceTypeIdentity
1485 MO-LR
Habbar Taleservice-List Grouped
1487 TS-Code
1488 Gall-Barring-Info
1489 GSSN-Number
1490 IDR-Flags
1491 ICS-Indicator
1492 IMS-Voice-Over-PS-Sessions-Supported
Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions
1494 Last-UE-Activity-Time
1495 EPS-User-State Grouped 1496 EPS-Location-Information Grouped 1497 MME-User-State Grouped 1498 GSN-User-State Grouped 1499 User-State Grouped 1499 User-State Enumerated Enumerated 1500 Non-3GPP-User-Data Grouped 1501 Non-3GPP-User-Data Grouped 1502 Non-3GPP-User-Data Enumerated 1504 Non-3GPP-User-Data Enumerated 1504 ANID UTF8String 1505 Trace-Info Grouped 1506 MIP-FA-RK OctetString Unsigned32 1505 Trace-Info Grouped 1506 MIP-FA-RK OctetString Unsigned32 1508 PPR-Flags Unsigned32 1508 PPR-Flags Unsigned32 1511 Access-Authorization-Flags Unsigned32 1513 Reserved -
1496 EPS-Location-Information Grouped
1497 MME-User-State Grouped 1498 GSN-User-State Grouped 1498 GSN-User-State Enumerated Enumerated Enumerated 1500 Non-3GPP-User-Data Grouped 1501 Non-3GPP-User-Data Enumerated 1502 Non-3GPP-IP-Access Enumerated 1503 AN-Trusted Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF8String 1505 Trace-Info Grouped 1506 MIP-FA-RK OctetString 1507 MIP-FA-RK OctetString 1508 PPR-Flags Unsigned32 1509 WLAN-Identifier Grouped 1511 Access-Authorization-Flags Unsigned32 1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved -
1498 GSSN-User-State Enumerated 1499 User-State Enumerated 1500 Non-3GPP-User-Data Grouped 1501 Non-3GPP-IP-Access Enumerated 1502 Non-3GPP-IP-Access-APN Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF8String 1506 MIP-FA-RK OctetString 1507 MIP-FA-RK OctetString 1509 PPR-Flags Unsigned32 1509 WLAN-Identifier Grouped 1510 TWAN-Access-Info Grouped 1511 Access-Authorization-Flags Unsigned32 1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved - 1514 Reserved - 1515 Reserved - 1516 Full-Network-Name OctetString 1517 Short-Network-Name OctetString 1518 AAA-Failure-Indication Unsigned32 1520 DER-
1499 User-State
1500 Non-3GPP-User-Data Grouped
1501 Non-3GPP-IP-Access
1501 Non-3GPP-IP-Access
1502 Non-3GPP-IP-Access-APN
1503 AN-Trusted
1504 ANID
1505 Trace-Info Grouped 1506 MIP-FA-RK OctetString 1507 MIP-FA-RK-SPI Unsigned32 1508 PPR-Flags Unsigned32 1509 WLAN-Identifier Grouped 1510 TWAN-Access-Info Grouped 1511 Access-Authorization-Flags Unsigned32 1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved - 1514 Reserved - 1515 Reserved - 1515 Full-Network-Name OctetString 1515 Full-Network-Name OctetString 1517 Short-Network-Name OctetString 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 UTF
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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 - 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
1510 TWAN-Access-Info Grouped 1511 Access-Authorization-Flags Unsigned32 1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved - 1514 Reserved - 1515 Reserved - 1516 Full-Network-Name OctetString 1517 Short-Network-Name OctetString 1518 AAA-Failure-Indication Unsigned32 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
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-Connection-Mode 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
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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
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
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
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
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
1523 DER-S6b-Flags Unsigned32 1524 SSID UTF8String 1525 HESSID UTF8String 1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32
1524SSIDUTF8String1525HESSIDUTF8String1526Access-Network-InfoGrouped1527TWAN-Connection-ModeUnsigned32
1525 HESSIDUTF8String1526 Access-Network-InfoGrouped1527 TWAN-Connection-ModeUnsigned32
1526Access-Network-InfoGrouped1527TWAN-Connection-ModeUnsigned32
1527 TWAN-Connection-Mode Unsigned32
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
1535 WLCP-Key OctetString
318 3GPP-AAA-Server-Name DiameterIdentity
1536 Origination-Time-Stamp Unsigned64

ACOZ Manianova Wait Time	Haratana a doo	
1537 Maximum-Wait-Time	Unsigned32	
1538 Emergency-Indication	Unsigned32	
1539 AAR-Flags Note 1: The AVP codes from 1540 to 1599 are reserved for TS 29.273	Unsigned32	
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP	TS 20 224 and is now defi	nod in 2CDD TC
29.273 from Rel-12.	13 29.234 and is now deli	neu in SGFF 13
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	Enumerated	
1615 UE-SRVCC-Capability	Enumerated	
1616 MPS-Priority	Unsigned32	
1617 VPLMN-LIPA-Allowed	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	00 070 [04]
1629 Event-ThresholdRSRP	Unsigned32	29.272 [21]
1630 Event-ThresholdRSRQ 1631 Logging-Interval	Unsigned32	
1632 Logging-Interval	Enumerated Enumerated	
1633 Relay-Node-Indicator	Enumerated	
1634 MDT-User-Consent	Enumerated	
1635 PUR-Flags	Unsigned32	
1636 Subscribed-VSRVCC	Enumerated	
1637 Equivalent-PLMN-List	Grouped	
1638 CLR-Flags	Unsigned32	
1639 UVR-Flags	Unsigned32	
1640 UVA-Flags	Unsigned32	
1641 VPLMN-CSG-Subscription-Data	Grouped	
1642 Time-Zone	UTF8String	
1643 A-MSISDN	OctetString	
1644 Reserved	-	
1645 MME-Number-for-MT-SMS	OctetString	
1646 Reserved	-	
1647 Reserved	<u> </u>	
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	
1657 Collection-Period-RRM-LTE	Enumerated	
1658 Collection-Period-RRM-UMTS	Enumerated	

	1 0 : .0:1	T
1659 Positioning-Method	OctetString	
1660 Measurement-Quantity	OctetString	
1661 Event-Threshold-Event-1F	Integer32	
1662 Event-Threshold-Event-1I	Integer32	
1663 Restoration-Priority	Unsigned32	
1664 SGs-MME-Identity	UTF8String	
1665 SIPTO-Local-Network-Permission	Unsigned32	†
		<u> </u>
1666 Coupled-Node-Diameter-ID	DiameterIdentity	
1667 WLAN-offloadability	Grouped	
1668 WLAN-offloadability-EUTRAN	Unsigned32	
1669 WLAN-offloadability-UTRAN	Unsigned32	
1670 Reset-ID	OctetString	
1671 MDT-Allowed-PLMN-Id	OctetString	
1672 Adjacent-PLMNs	Grouped	
1673 Adjacent-Access-Restriction-Data	Grouped	†
1674 DL-Buffering-Suggested-Packet-Count	Integer32	}
1675 IMSI-Group-Id	Grouped	ļ
1676 Group-Service-Id	Unsigned32	ļ
1677 Group-PLMN-Id	OctetString	ļ
1678 Local-Group-Id	OctetString	J
1679 AIR-Flags	Unsigned32	
1680 UE-Usage-Type	Unsigned32	
1681 Non-IP-PDN-Type-Indicator	Enumerated	
1682 Non-IP-Data-Delivery-Mechanism	Unsigned32	{
1683 Additional-Context-Identifier		{
	Unsigned32	
Note: The AVP codes from 1684 to 1699 are reserved for TS 29.272.		T
2000 SMS-Information	Grouped	
2001 Data-Coding-Scheme	Integer32	
2002 Destination-Interface	Grouped	
2003 Interface-Id	UTF8String	
2004 Interface-Port	UTF8String	
2005 Interface-Text	UTF8String	
2006 Interface-Type	Enumerated	
2007 SM-Message-Type	Enumerated	†
	Address	1
2008 Originating-SCCP-Address		
2009 Originator-Interface	Grouped	
2010 Recipient-SCCP-Address	Address	
2011 Reply-Path-Requested	Enumerated	
2012 SM-Discharge-Time	Time	
2013 SM-Protocol-ID	OctetString	
2014 SM-Status	OctetString	
2015 SM-User-Data-Header	OctetString	
2016 SMS-Node	Enumerated	
2017 SMSC-Address	Address	1
2017 SMSC-Address 2018 Client-Address		1
	Address	00 000 (=1
2019 Number-of-Messages-Sent	Unsigned32	32.299 [5]
2020 Low-Balance-Indication	Enumerated	
2021 Remaining-Balance	Grouped	
2022 Refund-Information	OctetString	
2023 Carrier-Select-Routing-Information	UTF8String	
2024 Number-Portability-Routing-Information	UTF8String	
2025 PoC-Event-Type	Enumerated	1
2026 Recipient-Info	Grouped	†
2027 Originator-Received-Address	Grouped	1
		1
2028 Recipient-Received-Address	Grouped	
2029 SM-Service-Type	Enumerated	
2030 MMTel-Information	Grouped	
2031 MMTel-Sservice-Type	Unsigned32	
2032 Service-Mode	Unsigned32	
2033 Subscriber-Role	Enumerated	
2034 Number-Of-Diversions	Unsigned32	
2035 Associated-Party-Address	UTF8String	1
2036 SDP-Type	Enumerated	
2037 Change-Condition	Integer32	1
		1
2038 Change-Time	Time	1

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2039 Diagnostics	Integer32	
2040 Service-Data-Container	Grouped	
2041 Start-Time	Time	
2042 Stop-Time	Time	
2043 Time-First-Usage	Time	
2044 Time-Last-Usage	Time	
2045 Time-Usage	Unsigned32	
2046 Traffic-Data-Volumes	Grouped	
2047 Serving-Node-Type	Enumerated	
2048 Supplementary-Service	Grouped	
2049 Participant-Action-Type	Enumerated	
2050 PDN-Connection-Charging-ID	Unsigned32	
2051 Dynamic-Address-Flag	Enumerated	
2052 Accumulated-Cost	Grouped	
2053 AoC-Cost-Information	Grouped	
2054 AoC-Information		
	Grouped	
2055 AoC-Request-Type	Enumerated	
2056 Current-Tariff	Grouped	
2057 Next-Tariff	Grouped	
2058 Rate-Element	Grouped	
2059 Scale-Factor	Grouped	
2060 Tariff-Information	Grouped	
2061 Unit-Cost	Grouped	
2062 Incremental-Cost	Grouped	
2063 Local-Sequence-Number	Unsigned32	
2064 Node-Id	UTF8String	
2065 SGW-Change	Enumerated	
2066 Charging-Characteristic-Selection-Mode	Enumerated	
2067 SGW-Address	Address	
2068 Dynamic-Address-Flag-Extension	Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.	Endinerated	
2100 reserved	-	
2101 Application-Server-ID	UTF8String	
2102 Application-Service-Type	Enumerated	
2103 Application-Session-ID	Unsigned32	
2104 Delivery-Status	UTF8String	
2105 reserved	-	
2106 reserved	-	
2107 reserved	-	
2108 reserved	-	
2109 reserved	-	32.299 [5]
2110 IM-Information	Grouped	
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112 Number-Of-Messages-Successfully-Sent	Unsigned32	
2113 Total-Number-Of-Messages-Exploded	Unsigned32	
2114 Total-Number-Of-Messages-Sent	Unsigned32	
2115 DCD-Information	Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String	
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-Decision-Info	Grouped	
2201 Subsession-Enforcement-info	Unsigned32	
	•	
2203 Subsession-Operation	Enumerated	20 245 [22]
2204 Multiple-BBERF-Action	Enumerated	29.215 [22]
2205 UE-Local-IPv6-Prefix	OctetString	
2206 DRA-Deployment	Enumerated	
2207 PCRF-Address	DiameterIdentity	
2208 DRA-Binding	Enumerated	
Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215.	1	
2300 reserved	-	
2301 SIP-Request-Timestamp-Fraction	Unsigned32	32 200 [E]
2302 SIP-Response-Timestamp-Fraction	Unsigned32	32.299 [5]
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	
2312 AoC-Service-Obligatory-Type	Grouped	
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	Orisigned32	
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication		
2319 User-CSG-Information	Enumerated	
	Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator	Enumerated	
2323 MBMS-Charged-Party	Enumerated	
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.	0-1-101-1	
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
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	20.110 [20]
2407 PPR-Address	Address	
2408 MME-Realm	DiameterIdentity	
2409 SGSN-Name	DiameterIdentity	
2410 SGSN-Realm	DiameterIdentity	
2411 RIA-Flags	Unsigned32	
Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173.		
2500 SLg-Location-Type	Enumerated	
2501 LCS-EPS-Client-Name	Grouped	
2502 LCS-Requestor-Name	Grouped	
2503 LCS-Priority	Unsigned32	
2504 LCS-QoS	Grouped	
2505 Horizontal-Accuracy	Unsigned32	
2506 Vertical-Accuracy	Unsigned32	
2507 Vertical-Requested	Enumerated	
2508 Velocity-Requested	Enumerated	
2509 Response-Time	Enumerated	
2510 Supported-GAD-Shapes	Unsigned32	
2511 LCS-Codeword	UTF8String	
2512 LCS-Privacy-Check	Enumerated	
2513 Accuracy-Fulfilment-Indicator	Enumerated	
2514 Age-Of-Location-Estimate	Unsigned32	
2515 Velocity-Estimate	OctetString	29.172 [24]
2516 EUTRÁN-Positioning-Data	OctetString	· · ·
2517 ECGI	OctetString	
2518 Location-Event	Enumerated	
2519 Pseudonym-Indicator	Enumerated	
25 9 F Seducity 1 - 1 1 1 1 1 1 1 1 1	Liluinelateu	h .
2520 LCS-Service-Type-ID	Unsigned32	
2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session	Unsigned32 Grouped	
2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session	Unsigned32	
2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class	Unsigned32 Grouped Grouped Enumerated	
2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info	Unsigned32 Grouped Grouped Enumerated Grouped	
2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info 2525 GERAN-Positioning-Data	Unsigned32 Grouped Grouped Enumerated Grouped OctetString	
2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info 2525 GERAN-Positioning-Data 2526 GERAN-GANSS-Positioning-Data	Unsigned32 Grouped Grouped Enumerated Grouped OctetString OctetString	
2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info 2525 GERAN-Positioning-Data 2526 GERAN-GANSS-Positioning-Data 2527 UTRAN-Positioning-Info	Unsigned32 Grouped Grouped Enumerated Grouped OctetString OctetString Grouped	
2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info 2525 GERAN-Positioning-Data 2526 GERAN-GANSS-Positioning-Data 2527 UTRAN-Positioning-Info 2528 UTRAN-Positioning-Data	Unsigned32 Grouped Grouped Enumerated Grouped OctetString Grouped OctetString Grouped OctetString	
2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info 2525 GERAN-Positioning-Data 2526 GERAN-GANSS-Positioning-Data 2527 UTRAN-Positioning-Info	Unsigned32 Grouped Grouped Enumerated Grouped OctetString OctetString Grouped	

	LCS-Reference-Number	OctetString	
	Deferred-Location-Type	Unsigned32	
	Area-Event-Info	Grouped	
	Area-Definition	Grouped	
2535		Grouped	
	Area-Type	Unsigned32	
2537	Area-Identification	Grouped	
	Occurrence-Info	Enumerated	
2539	Interval-Time	Unsigned32	
	Periodic-LDR-Information	Grouped	
2541	Reporting-Amount	Unsigned32	
	Reporting-Interval	Unsigned32	
	Reporting-PLMN-List	Grouped	
	PLMN-ID-List	Grouped	
2545	PLR-Flags	Unsigned32	
	PLA-Flags	Unsigned32	
	Deferred-MT-LR-Data	Grouped	
	Termination-Cause	Unsigned32	
	LRA-Flags	Unsigned32	
	Periodic-Location-Support-Indicator	Enumerated	
	Prioritized-List-Indicator	Enumerated	
	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.	Occessing	
	reserved	T	
		IJTF0C4#:	
	IMS-Application-Reference-Identifier	UTF8String	
	Low-Priority-Indicator	Enumerated	20 000 [5]
	IP-Realm-Default-Indicator	Enumerated	32.299 [5]
	Local-GW-Inserted-Indicator	Enumerated	
	Transcoder-Inserted-Indicator	Enumerated	
	PDP-Address-Prefix-Length	Unsigned32	
	The AVP codes from 2607 to 2699 are reserved for TS 32.299.	T	
	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	32.299 [5]
	Access-Transfer-Information	Grouped	02.299 [0]
	Access-Transfer-Type	Enumerated	
2711	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.		
	Reserved	-	
	ADC-Revalidation-Time	Time	
	TDF-Application-Instance-Identifier	OctetString	
	HeNB-BBF-FQDN	UTF8String	
	HeNB-Local-IP-Address	Address	29.212 [19]
	UE-Local-IP-Address	Address	20.212[10]
	UDP-Source-Port	Unsigned32	
	CS-Service-Qos-Request-Identifier	OctetString	
	CS-Service-Qos-Request-Identifier CS-Service-QoS-Request-Operation	Enumerated	
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2809 Mute-Notification	Faumorated	
2810 Monitoring-Time	Enumerated 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	
2816 Default-QoS-Information	Grouped	
2817 Default-QoS-Name	UTF8String	
2818 Conditional-APN-Aggregate-Max-Bitrate 2819 RAN-NAS-Release-Cause	Grouped	
	OctetString	
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	
2826 PCSCF-Restoration-Indication	Unsigned32	
2827 IP-CAN-Session-Charging-Scope	Enumerated	
2828 Monitoring-Flags	Unsigned32	
2829 Default-Access	Enumerated	
2830 NBIFOM-Mode	Enumerated	
2831 NBIFOM-Support	Enumerated	
2832 RAN-Rule-Support	Unsigned32	
2833 Access-Availability-Change-Reason	Unsigned32	
2834 Routing-Rule-Failure-Code	Unsigned32	
2835 Routing-Rule-Report	Grouped	
2836 Traffic-Steering-Policy-Identifier-DL	OctetString	
2837 Traffic-Steering-Policy-Identifier-UL	OctetString	
2838 Request-Type	Unsigned32	
2839 Execution-Time	Time	
2840 Conditional-Policy-Information	Grouped	
Note: The AVP codes from 2841 to 2899 are reserved for TS 29.212.		
2900 reserved	-	
2901 Policy-Counter-Identifier	Grouped	
2902 Policy-Counter-Status	UTF8String	29.219 [26]
2903 Policy-Counter-Status-Report	Grouped	
2904 SL-Request-Type	Enumerated	
Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219.		
3000 reserved	-	
3001 Device-Action	Grouped	
3002 Device-Notification	Grouped	
3003 Trigger-Data	Grouped	
3004 Payload	OctetString	
3005 Action-Type	Enumerated	
3006 Priority-Indication	Enumerated	29.368 [27]
3007 Reference-Number	Unsigned32	! 1
3008 Request-Status	Enumerated	
3009 Delivery-Outcome	Enumerated	
3010 Application-Port-Identifier	Unsigned32	
3011 Old-Reference-Number	Unsigned32	
3012 Feature-Supported-In-Final-Target	Unsigned32	
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.	Choighteacz	
3100 IP-SM-GW-Number	OctetString	
3101 IP-SM-GW-Name	DiameterIdentity	
3102 User-Identifier	Grouped	
3103 Service-ID	Enumerated	
3104 SCS-Identity	OctetString	
3105 Service-Parameters	Grouped	
3106 T4-Parameters	Grouped	29.336 [28]
3107 Service-Data	Grouped	
3108 T4-Data	Grouped	
	Unsigned32	
13100 IBSS-Cause		
3109 HSS-Cause		
3109 HSS-Cause 3110 SIR-Flags 3111 External-Identifier	Unsigned32 UTF8String	

	T =	
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 3122 Monitoring-Event-Configuration	Grouped Grouped	
	Grouped	
3123 Monitoring-Event-Report 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	
3148 Validity-Time	Time	
3149 Event-handling 3150 NIDD-Authorization-Request	Unsigned32 Grouped	
3151 NIDD-Authorization-Response	Grouped	
Note: The AVP codes from 3152 to 3199 are reserved for TS 29.336.	Grouped	
3200 SM-Delivery-Outcome-T4	Enumerated	
3201 Absent-Subscriber-Diagnostic-T4	Enumerated	
3202 Trigger-Action	Unsigned32	29.337 [29]
3203 MTC-Error-Diagnostic	Unsigned32	
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.	2.10.g.10.00L	
3300 SC-Address	OctetString	
3301 SM-RP-UI	OctetString	
3302 TFR-Flags	Unsigned32	
3303 SM-Delivery- Failure-Cause	Grouped	
3304 SM-Enumerated-Delivery-Failure-Cause	Enumerated	
3305 SM-Diagnostic-Info	OctetString	
3306 SM-Delivery-Timer	Unsigned32	
3307 SM-Delivery-Start-Time	Time	
3308 SM-RP-MTI	Enumerated	
3309 SM-RP-SMEA	OctetString	29.338 [30]
3310 SRR-Flags	Unsigned32	
3311 SM-Delivery-Not-Intended	Enumerated	
3312 MWD-Status	Unsigned32	
3313 MME-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3314 MSC-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3315 SGSN-Absent-User-Subscriber-Diagnostic SM	Unsigned32	
3316 SM-Delivery-Outcome	Grouped	
3317 MME-SM-Delivery-Outcome	Grouped	
3318 MSC-SM-Delivery-Outcome	Grouped	

3319	SGSN-SM-Delivery-Outcome	Grouped	
	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 Time	
	Requested-Retransmission-Time SMS-GMSC-Address	OctetString	
	SMS-GMSC-Address SMS-GMSC-Alert-Event	Unsigned32	
	The AVP codes from 3334 to 3399 are reserved for TS 29.338.	Unsigned32	
	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	
3410	VCS-Information	Grouped	
3411	Basic-Service-Code	Grouped	
3412	Bearer-Capability	OctetString	
3413	Teleservice	OctetString	
3414	ISUP-Location-Number	OctetString	
	Forwarding-Pending	Enumerated	
	ISUP-Release-Cause	Unsigned32	
	MSC-Address	OctetString	
	Network-Call-Reference-Number	OctetString	
	Start-of-Charging	Time	
	VLR-Number	OctetString	
	CN-Operator-Selection-Entity	Enumerated	
	ISUP-Cause-Diagnostics	OctetString	
	ISUP-Cause-Location	Unsigned32	20 200 [5]
	ISUP-Cause-Value	Unsigned32	32.299 [5]
	EPDG-Address Announcing-UE-HPLMN-Identifier	Address 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	
3438	Role-Of-ProSe-Function	Enumerated	
	Usage-Information-Report-Sequence-Number	Integer32	
3440	ProSe-3rd-Party-Application-ID	UTF8String	
3441	ProSe-Direct-Communication-Transmission-Data-Container	Grouped	
	ProSe-Direct-Discovery-Model	Enumerated	
	ProSe-Event-Type	Enumerated	
	ProSe-Function-IP-Address	Address	
	ProSe-Functionality	Enumerated	
	ProSe-Group-IP-Multicast-Addresses	Address	
	ProSe-Information	Grouped	
3448	ProSe-Range-Class	Enumerated	

3//0	ProSe-Reason-For-Cancellation	Enumerated	
	ProSe-Request-Timestamp	Time	
	ProSe-Role-Of-UE	Enumerated	
	ProSe-Source-IP-Address	Address	
	ProSe-UE-ID	OctetString	
	Proximity-Alert-Indication	Enumerated	
	Proximity-Alert-Timestamp	Time	
	Proximity-Cancellation-Timestamp	Time	
	ProSe-Function-PLMN-Identifier	UTF8String	
	Application-Specific-Data	OctetString	
	Coverage-Info	Grouped	
	Location-Info	Grouped	
	ProSe-Direct-Communication-Reception-Data-Container	Grouped	
	Radio-Frequency	OctetString	
	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	
	MBMS-Start-Time	Time	
	Radio-Frequency	Unsigned32	29.468 [31]
	TMGI-Allocation-Request	Grouped	23.400 [31]
	TMGI-Allocation-Response	Grouped	
	TMGI-Allocation-Result	Unsigned32	
	TMGI-Deallocation-Request	Grouped	
3513	TMGI-Deallocation-Response	Grouped	
3514	TMGI-Deallocation-Result	Unsigned32	
3515	TMGI-Expiry	Grouped	
	TMGI-Number	Unsigned32	
3517	MB2U-Security	Unsigned32	
	The AVP codes from 3518 to 3599 are reserved for TS 29.468.	<u> </u>	
	Origin-App-Layer-User-Id	UTF8String	
3601	Target-App-Layer-User-Id	UTF8String	00 040 [00]
	ProSe-Function-ID	OctetString	29.343 [32]
	ProSe-Request-Type	Unsigned32	
	The AVP codes from 3604 to 3699 are reserved for TS 29.343.		
	ProSe-Subscription-Data	Grouped	
	ProSe-Permission	Unsigned32	
	ProSe-Allowed-PLMN	Grouped	
	ProSe-Direct-Allowed	Unsigned32	00 5 / / *
	UPR-Flags	Unsigned32	29.344 [33]
	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.	J J J J J J J J J J J J J J J J J J J	
	Reserved		
	App-Layer-User-Id	UTF8String	
	Assistance-info	Grouped	
	Assistance-info Assistance-Info-Validity-Timer	Unsigned32	
	Discovery-Type	Unsigned32	
	Filter-Id	OctetString	29.345 [34]
	MAC-Address	UTF8String	23.343 [34]
		Grouped	
	Match-Report Operating Channel		
	Operating-Channel	Unsigned32	
	P2P-Features	Unsigned32	
3010	ProSe-App-Code	UTF8String	

	T	
3811 ProSe-App-Id	UTF8String	
3812 ProSe-App-Mask	UTF8String	
3813 ProSe-Discovery-Filter	Grouped	
3814 PRR-Flags	Unsigned32	
3815 ProSe-Validity-Timer	Unsigned32	
3816 Requesting-EPUID	UTF8String	
3817 Targeted-EPUID	UTF8String	
3818 Time-Window	Unsigned32	
3819 WiFi-P2P-Assistance-Info	Grouped	
3820 WLAN-Assistance-Info	Grouped	
3821 WLAN-Link-Layer-Id	OctetString	
3822 WLAN-Link-Layer-Id-List	Grouped Grouped	
3823 Location-Update-Trigger 3824 Location-Update-Event-Type	Unsigned32	
3825 Change-Of-Area-Type	Grouped	
3826 Location-Update-Event-Trigger	Unsigned32	
3827 Report-Cardinality	Enumerated	
3828 Minimum-Interval-Time	Unsigned32	
3829 Periodic-Location-Type	Grouped	
3830 Location-Report-Interval-Time	Unsigned32	
3831 Total-Number-Of-Reports	Unsigned32	
3832 Validity-Time-Announce	Unsigned32	
3833 Validity-Time-Monitor	Unsigned32	
3834 Validity-Time-Communication	Unsigned32	
3835 ProSe-App-Code-Info	Grouped	
3836 MIC	OctetString	
3837 UTC-based-Counter	Unsigned32	
3838 ProSe-Match-Refresh-Timer	Unsigned32	
3839 ProSe-Metadata-Index-Mask	OctetString	
3840 App-Identifier	Grouped	
3841 OS-ID	OctetString	
3842 OS-App-ID	UTF8String	
3843 Requesting-RPAUID	UTF8String	
3844 Target-RPAUID	UTF8String	
3845 Target-PDUID	OctetString	
3846 ProSe-Restricted-Code	OctetString	
3847 ProSe-Restricted-Code-Suffix-Range	OctetString	
3848 Beginning-Suffix	OctetString	
3849 Ending-Suffix	OctetString	
3850 Discovery-Entry-ID 3851 Match-Timestamp	Unsigned32	
3852 PMR-Flags	Time Unsigned32	
3853 ProSe-Application-Metadata	UTF8String	
3854 Discovery-Auth-Request	Grouped	
3855 Discovery-Auth-Response	Grouped	
3856 Match-Request	Grouped	
3857 Match-Report-Info	Grouped	
3858 Banned-RPAUID	UTF8String	
3859 Banned-PDUID	OctetString	
Note: The AVP codes from 3860 to 3899 are reserved for TS 29.345.	, 	
3900 Reserved		
3901 Enhanced-Diagnostics	Grouped	
3902 Inter-UE-Transfer	Enumerated	
3903 TWAG-Address	Address	
3904 Announcement-Information	Grouped	
3905 Announcement-Identifier	Unsigned32	
3906 Announcement-Order	Unsigned32	
3907 Variable-Part	Grouped	29.128 [36]
3908 Variable-Part-Order	Unsigned32	
3909 Variable-Part-Type	Unsigned32	
3910 Variable-Part-Value	UTF8String	
3911 Time-Indicator	Unsigned32	
3912 Quota-Indicator	Enumerated	
3913 Play-Alternative	Enumerated	
3914 Language	UTF8String	

3915 Privacy-Indicator	Enumerated	
3916 Called-Identity	UTF8String	
3917 Called-Identity-Change	Grouped	
3918 UWAN-User-Location-Info	Grouped	
3919 Monitoring-Event-Configuration-Activity	Integer32	
3920 Monitoring-Event-Report-Data	Grouped	
3921 Monitoring-Event-Information	Grouped	
3922 Monitoring-Event-Functionality	Integer32	
3923 Monitoring-Event-Report-Number	Unsigned32	1
Note: The AVP codes from 3924 to 3999 are reserved for TS 29.128.	•	
4000 Aggregated-Congestion-Info	Grouped	
4001 Aggregated-RUCI-Report	Grouped	
4002 Congestion-Level-Definition	Grouped	
4003 Congestion-Level-Range	Unsigned32	
4004 Congestion-Level-Set-Id	Unsigned32	
4005 Congestion-Level-Value	Unsigned32	
4006 Congestion-Location-Id	Grouped	29.217 [35]
4007 Conditional-Restriction	Unsigned32	
4008 eNodeB-ld	OctetString	
4009 IMSI-List	OctetString	
4010 RCAF-Id	DiameterIdentity	
4011 Reporting-Restriction	Unsigned32	
4012 RUCI-Action	Unsigned32	
Note: The AVP codes from 4013 to 4099 are reserved for TS 29.217.		
4100		29.153 [37]
Note: The AVP codes from 4100 to 4199 are reserved for TS 29.153.		
4200		29.154 [38]
Note: The AVP codes from 4200 to 4299 are reserved for TS 29.154.		
4300 Communication-Failure-Information	Grouped	
4301 Cause-Type	Unsigned32	
4302 S1AP-Cause	Unsigned32	
4303 RANAP-Cause	Unsigned32	
4304 GMM-Cause	Unsigned32	29.128 [36]
4305 SM-Cause	Unsigned32	29.120 [30]
4306 Number-of-UE-Per-Location-Configuration	Grouped]
4307 Number-of-UE-Per-Location-Report	Grouped]
4308 UE-Count	Unsigned32]
4309 BSSGP-Cause	Unsigned32	
Note: The AVP codes from 4310 to 4399 are reserved for TS 29.128.		

8 Experimental result codes

The Diameter answer messages must carry either Result-Code AVP or Experimental-Result AVP. The values of Result-Code AVP are controlled by IANA. The Experimental-Result AVP is a grouped AVP containing the Vendor-Id AVP and Experimental-Result-Code AVP, thus the experimental result codes are controlled in a vendor-specific manner.

8.1 3GPP specific result codes

The 3GPP specific result codes are always transferred in the Experimental-Result AVP, which has the Vendor-Id with value of 3GPP"s vendor identifier. The 3GPP specific result codes shall follow the same classification as defined for the values of Result-Code AVP in IETF RFC 3588 [9]. That means, the result codes are grouped to following ranges:

- 1xxx (Informational)
- 2xxx (Success)
- 4xxx (Transient Failures)
- 5xxx (Permanent Failures)

8.1.1 Informational

The Informational result codes shall use the values from 1001 to 1999 in the Experimental-Result-Code AVP.

Editor"s note: No informational result codes have been yet defined in 3GPP.

8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

Experimental Result Code	Result text	Specified in the TS
2001	DIAMETER_FIRST_REGISTRATION	
2002	DIAMETER_SUBSEQUENT_REGISTRATION	
2003	DIAMETER_UNREGISTERED_SERVICE	29.229 [2]
2004	DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED	
2005	Deprecated value	
Note: The Experime	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.	
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]
Note: The Experime	ental Result Codes from 2022 to 2040 are reserved for the TS 29.061	
_		29.109 [7]
Note: The Experime	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.	
	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.	
	DIAMETER_ERROR_ABSENT_USER	29.173 [25]
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.	
4221	DIAMETER_ERROR_UNREACHABLE_USER	
4222	DIAMETER_ERROR_SUSPENDED_USER	
4223	DIAMETER_ERROR_DETACHED_USER	29.172 [24]
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]
4225	DIAMETER_ERROR_POSITIONING_FAILED	
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT	
	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.	
	DIAMETER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	29.219 [26]
Note: The Experime	ntal Result Codes from 4242 to 4260 are reserved for the TS 29.219.	
	REQUESTED_SERVICE_TEMPORARILY_NOT_AUTHORIZED	29.214 [18]
Note: The Experime	ntal Result Codes from 4262 to 4280 are reserved for the TS 29.214.	

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER ERROR USER UNKNOWN	10
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER ERROR ROAMING NOT ALLOWED	
5005	DIAMETER ERROR IDENTITY ALREADY REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED	
5012	DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUPPORTED	
Note: The Expe	erimental Result Codes from 5013 to 5020 are reserved for the TS	
N . T . E	I.D I.O	32.299 [5]
•	erimental Result Codes from 5021 to 5040 are reserved for the TS	S 32.299.
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042 5043	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC RIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	2.00.004
	erimental Result Codes from 5046 to 5060 are reserved for the TS	5 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	29.209 [8],
5064	DUPLICATED_AF_SESSION	29.211 [17],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.214 [18]
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	
5067 5068	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY TEMPORARY NETWORK FAILURE	
Note: The Expe	rimental Result Codes from 5069 to 5080 are reserved for TS 29 TS 29.214.	0.209, TS 29.211
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5100	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_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	erimental Result Codes from 5109 to 5119 are reserved for the TS	S 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
Note: The Expe	erimental Result Codes from 5124 to 5139 are reserved for the TS	S 29.061.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D	29.212 [19]
5145	DIAMETER_QOS_RULE_EVENT	
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
5148	DIAMETER_ADC_RULE_EVENT	
5149	DIAMETER_ERROR_NBIFOM_NOT_AUTHORIZED	
Note: The Expe	erimental Result Codes from 5150 to 5159 are reserved for the TS	S 29.212.

5401	DIAMETER ERROR IMPI UNKNOWN	
5402	DIAMETER ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	201.00 [.
	erimental Result Codes from 5404 to 5419 are reserved for the TS	2 20 100
		5 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 Expe	erimental Result Codes from 5424 to 5449 are reserved for the TS	S 29.272.
5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI	
0.00	ON	
F 4 F 4	-	
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	29.273 [20]
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	
5453	DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST	
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST	
Note: The Expe	erimental Result Codes from 5455 to 5469 are reserved for the TS	S 29.273.
5470	DIAMETER_ERROR_SUBSESSION	2 20.2. 0.
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME	20 245 [22]
3471		29.215 [22]
	NT	
	erimental Result Codes from 5472 to 5489 are reserved for the TS	S 29.215.
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET	29.173 [25]
	WORK	29.173 [25]
Note: The Expe	erimental Result Codes from 5491 to 5509 are reserved for the TS	S 29.173.
5510	DIAMETER ERROR UNAUTHORIZED REQUESTING ENTI	2 20111 01
3310	TY	
5544		
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
5512	DIAMETER_ERROR_REQUESTED_RANGE_IS_NOT	
	ALLOWED	
5513	DIAMETER ERROR CONFIGURATION EVENT STORAGE	00 000 1001
	_NOT_SUCCESSFUL	29.336 [28]
5514	DIAMETER_ERROR_CONFIGURATION_EVENT_NON_EXIS	
3314		
	TANT	
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	
5516	DIAMETER_ERROR_UNAUTHORIZED_CHARGEABLE_PAR	
	TY	
Note: The Expe	erimental Result Codes from 5517 to 5529 are reserved for the TS	S 29.336.
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	
5531	DIAMETER_ERROR_SC_CONGESTION	
5532	DIAMETER_ERROR_SM_PROTOCOL	29.337 [29]
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5535	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING	
Note: The Expe		
-		
กกาน	erimental Result Codes from 5536 to 5549 are reserved for the TS	
5550 5551	erimental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER	
5551	erimental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	
5551 5552	erimental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5551 5552 5553	erimental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER	S 29.337.
5551 5552	erimental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT	
5551 5552 5553	erimental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER	S 29.337.
5551 5552 5553 5554 5555	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE	S 29.337.
5551 5552 5553 5554 5555 5556	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED	S 29.337.
5551 5552 5553 5554 5555 5556 5556	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED	S 29.337.
5551 5552 5553 5554 5555 5556 5556 5557 5558	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL	S 29.337. 29.338 [30]
5551 5552 5553 5554 5555 5556 5557 5558 Note: The Expe	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL DIAMETER_ERROR_SESSES TO 5569 are reserved for the TS DIAMETER_ERROR SESSES TO 5569 are reserved for the TS DIAMETER_ERROR_SESSES TO 55	S 29.337. 29.338 [30]
5551 5552 5553 5554 5555 5556 5557 5558 Note: The Expe	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL PRIMED BY THE TO STORM TO STOR	29.338 [30] 29.338. 29.219 [26]
5551 5552 5553 5554 5555 5556 5557 5558 Note: The Expe	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL DIAMETER_ERROR_SESSES TO 5569 are reserved for the TS DIAMETER_ERROR SESSES TO 5569 are reserved for the TS DIAMETER_ERROR_SESSES TO 55	29.338 [30] 29.338. 29.219 [26]
5551 5552 5553 5554 5555 5556 5557 5558 Note: The Expe	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL PRIMED BY THE STORM SERVICE S	29.338 [30] 29.338. 29.219 [26]
5551 5552 5553 5554 5555 5556 5557 5558 Note: The Expersion	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL PRIMENTAL RESULT CODES FROM 5559 to 5569 are reserved for the TS DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS EXPERIMENTAL RESULT CODES FROM 5571 to 5589 are reserved for the TS DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	29.338 [30] 29.338. 29.219 [26]
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5551 5552 5553 5554 5555 5556 5557 5558 Note: The Expersion Note: The Expersion Note: The 5570 Note: The 5590 5591	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_SILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL PRIMEDIAL RESULT CODES FROM 5559 to 5569 are reserved for the TS DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS EXPERIMENTAL RESULT CODES FROM 5571 to 5589 are reserved for the TS DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN DIAMETER_ERROR_TARGET_ALUID_UNKNOWN DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	29.338 [30] 29.338. 29.219 [26]
5551 5552 5553 5554 5555 5556 5557 5558 Note: The Expersion Note: The Expersion Note: The 5570 Note: The 5590 5591 5592 5593	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL PRIMEDIAL RESULT CODES FROM 5559 to 5569 are reserved for the TS DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS EXPERIMENTAL RESULT CODES FROM 5571 to 5589 are reserved for the TS DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN DIAMETER_ERROR_TARGET_ALUID_UNKNOWN DIAMETER_ERROR_PFID_UNKNOWN DIAMETER_ERROR_APP_REGISTER_REJECT	29.338 [30] 29.338. 29.219 [26]
5551 5552 5553 5554 5555 5556 5557 5558 Note: The Expersion Note: The Expersion Note: The 5570 Note: The 5590 5591	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_SILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL PRIMEDIAL RESULT CODES FROM 5559 to 5569 are reserved for the TS DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS EXPERIMENTAL RESULT CODES FROM 5571 to 5589 are reserved for the TS DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN DIAMETER_ERROR_TARGET_ALUID_UNKNOWN DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	29.338 [30] S 29.338. 29.219 [26] he TS 29.219.
5551 5552 5553 5554 5555 5556 5557 5558 Note: The Expersion Note: The Expersion Note: The 5570 Note: The 5590 5591 5592 5593	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL PRIMEDIAL RESULT CODES FROM 5559 to 5569 are reserved for the TS DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS EXPERIMENTAL RESULT CODES FROM 5571 to 5589 are reserved for the TS DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN DIAMETER_ERROR_TARGET_ALUID_UNKNOWN DIAMETER_ERROR_PFID_UNKNOWN DIAMETER_ERROR_APP_REGISTER_REJECT	29.338 [30] 29.338. 29.219 [26]
5551 5552 5553 5554 5555 5556 5557 5558 Note: The Expe 5570 Note: The 5590 5591 5592 5593 5594	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_SILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL PRIMEDIAL RESULT CODES FROM 5559 to 5569 are reserved for the TS DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS EXPERIMENTAL RESULT CODES FROM 5571 to 5589 are reserved for tODIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN DIAMETER_ERROR_TARGET_ALUID_UNKNOWN DIAMETER_ERROR_TARGET_ALUID_UNKNOWN DIAMETER_ERROR_PFID_UNKNOWN DIAMETER_ERROR_PFID_UNKNOWN DIAMETER_ERROR_APP_REGISTER_REJECT DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE D	29.338 [30] S 29.338. 29.219 [26] he TS 29.219.
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5551 5552 5553 5554 5555 5556 5557 5558 Note: The Expe 5570 Note: The 5590 5591 5592 5593 5594	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL PRIMEDIAL CODES FROM 5559 to 5569 are reserved for the TS DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS EXPERIMENTAL RESULT CODES FROM 5571 to 5589 are reserved for the TS DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN DIAMETER_ERROR_TARGET_ALUID_UNKNOWN DIAMETER_ERROR_PFID_UNKNOWN DIAMETER_ERROR_PFID_UNKNOWN DIAMETER_ERROR_PREGISTER_REJECT DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE D DIAMETER_ERROR_REQUEST_REJECT	29.338 [30] S 29.338. 29.219 [26] he TS 29.219.
5551 5552 5553 5554 5555 5556 5557 5558 Note: The Expersion Note: The 5570 Note: The 5590 5591 5592 5593 5594	Primental Result Codes from 5536 to 5549 are reserved for the TS DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL PRIMEDIAL CODES FROM 5559 to 5569 are reserved for the TS DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS Experimental Result Codes from 5571 to 5589 are reserved for the TS DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN DIAMETER_ERROR_TARGET_ALUID_UNKNOWN DIAMETER_ERROR_TARGET_ALUID_UNKNOWN DIAMETER_ERROR_PFID_UNKNOWN DIAMETER_ERROR_APP_REGISTER_REJECT DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE D DIAMETER_ERROR_REQUEST_REJECT DIAMETER_ERROR_REQUEST_REJECT DIAMETER_ERROR_REQUEST_REJECT DIAMETER_ERROR_REQUEST_REJECT	29.338 [30] S 29.338. 29.219 [26] he TS 29.219.

5599 D	NAMETER_ERROR_AUTHORIZATION_REJECT					
5600 D	NAMETER_ERROR_DISCOVERY_NOT_PERMITTED					
5601 D	NAMETER_ERROR_TARGET_RPAUID_UNKNOWN					
5602 D	NAMETER_ERROR_INVALID_APPLICATION_DATA					
	mental Result Codes from 5596 to 5609 are reserved for the TS	S 29.343.				
5610 D	NAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION					
5611 D	NAMETER_ERROR_ PROSE_NOT_ALLOWED	29.344 [33]				
5612 D						
Note: The Experin	mental Result Codes from 5613 to 5629 are reserved for the TS	S 29.344.				
5630 D	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT					
	ER					
5631 D	NAMETER_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	29.345 [34]				
5636 D	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_	29.040 [04]				
	PLMN					
5637	DIAMETER_ERROR_PROXIMITY_CANCELLED					
5638	DIAMETER_ERROR_INVALID_TARGET_PDUID					
5639	DIAMETER_ERROR_INVALID_TARGET_RPAUID					
5640 E	DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO					
	DE					
5641	DIAMETER_ERROR_INVALID_DISCOVERY_TYPE					
	mental Result Codes from 5642 to 5649 are reserved for the TS	S 29.345.				
5650 D	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV	29.128 [36]				
	ED					
Note: The Experin	mental Result Codes from 5651 to 5699 are reserved for the TS	S 29.128.				

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 De -	CC	D	Change history	Old	Name
Date	TSG #	TSG Doc.	CR	Kev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292	001		Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25	NP-040401		-	Correction of Charging application reference	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Removal of User Data Request Type AVP	6.0.0	6.1.0
2004-09	CN#25	NP-040412		1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26	NP-040579			Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12	CN#26	NP-040580		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 of Ro for Re on the Charging Interfaces	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047		1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039			Allocations for Gx interface	ļ	
		NP-050039			Allocations for Gmb interface	Ţ	
		NP-050039			Allocations for MMS, MM10 Interface		
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.3.0	6.4.0
		CP-050196		1	Addition of Maximum-Number-Accesses AVP		
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.4.0	6.5.0
		CP-050310			Addition of Pr reference point to TS 29.230	<u> </u>	
		CP-050310			Error code cleanup		
		CP-050310	0056		Addition of Rx ref. point and renaming of Experimental Result Codes		
2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-12	CT#30	CP-050624			Addition of GBA-Type AVP	7.0.0	7.1.0
	000	CP-050612			Additional Gmb AVP Allocation	1	
		CP-050612			Reservation of AVP codes for 32.299	1	
		CP-050625			Management of Sh subscriptions	1	
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
2000 00	01//01	CP-060084			User-Data in the response to Sh-Subs-Notif	1,	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#32	CP-060417		3	New AVP Code	7.3.0	7.4.0
2000 03	01#33	CP-060417		0	Errors to be sent in response to Sh-Notif	7.5.0	7.4.0
		CP-060417			Definition of specific Diameter codes for DSAI	}	
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
2000-12	01#34	CP-060562		'	Addition of Diameter Error Code for Emergency Purposes	7.4.0	7.5.0
		CP-060555			Allocation of new AVP codes for Gmb	}	
		CP-060555			AVP code allocations for Rf and Ro interfaces	{	
		CP-060566			Allocation of Success Result Code Range for Gi Interface	1	
2007-03	CT#35	CP-070020			C3 requested addition of new AVP code values to 3GPP TS 29.230	750	7.6.0
2007-03	C1#35	CP-070020				7.5.0	7.6.0
				-	Allocation of new AVP code for DSAI-Tag AVP	-	
2007.00	CT#26	CP-070020			Allocation of Experimental-Result-Code AVP for Gi Interface	7.6.0	7.7.0
2007-06	CT#36	CP-070318		 	Diameter application ID for the Rel-7 Rx interface	7.0.0	1.7.0
		CP-070312	0098	1	Experimental-Result-Codes for Gmb interface	1	
2007.00	OT#07	CP-070312		<u> </u>	Correction of Diameter AVP code allocation	77^	700
2007-09	CT#37	CP-070527		<u> </u>	Application ID for Gx protocol	7.7.0	7.8.0
2007-12	CT#38	CP-070743			AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
			0105		Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol	<u>L</u>	
2007-12	CT#38	CP-070755	0101	4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
			0103		AVP code reservation for 32.299 in Rel-8		<u> </u>
2008-03	CT#39	CP-080015			Correction of reference to TS 29.140	8.0.0	8.1.0
		CP-080019	0111		AVP code reservation for TS 32.299 in Rel-8		
		CP-080019	0107		Wildcarded Public User Identities	1	
		CP-080191		1	Correction on AVP code allocation reservation for TS 32.299 in Rel-7		
		1		4	Correction on AVP code allocation reservation for TS 32.299	1	
		CP-080204	1()117				1
2008-06	CT#40	CP-080204		1		810	820
2008-06	CT#40	CP-080267	0117	1	A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-09	CT#41	CP-080267 CP-080456	0117 0119	1	A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal	8.1.0 8.2.0	8.2.0 8.3.0
		CP-080267	0117 0119 0121	1	A new Diameter Permanent Failure Code for Gx		

2008-09	CT#41	CP-080463			Assignment) 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	CP-080691	0128	1	Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044	0130	1	Update for ReadyForSM	8.4.0	8.5.0
2009-03	CT#43	CP-090044	0131	1	Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090026	0132		Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024			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		1	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		1	Location of Permanent Failure result code range for the S9 application	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0141		AVPs for TS 29.273	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299			Update of the AVP Codes	8.5.0	8.6.0
-000 00	0	CP-090299			AVP code reservation for TS 32.299	10.0.0	0.0.
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"	†	
		01 030233	0146		Removal of Requesting Node Type from AIR	┪	
		CP-090299			S6b Application ID	┪	
2000 00	CT#4E	CP-090299				0.6.0	0.7/
2009-09	CT#45			 	Allocation of Experimental-Result-Codes for S9 protocol AVP code allocation for TS 29.212	8.6.0	8.7.0
		CP-090530		-		4	
		CP-090531		-	Update of the AVP type for the User-Id	-	
2002.55	OT# 4=	CP-090531		ļ	Trace Depth per session	070	0 ^
2009-09	CT#45	CP-090557		_	AVP code range for charging	8.7.0	9.0.
2009-12	CT#46	CP-090800	-	1	ICS-Flag	9.0.0	9.1.
		CP-091032			From GMLC-Address to GMLC-Number	4	
			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		
	0=	05 (000)			Identifier		
2010-03	CT#47	CP-100031			Wildcarded Public Identity	9.1.0	9.2.
		CP-100034	0168	1	Correction on AVP code allocation reservation for TS 32.299 in		
		00 100010			Rel-9		
		CP-100046		1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109		ļ
		CP-100046			Error codes in 29.172 for SLg		ļ
		CP-100048		1	AVPs in 29.272 for TADS support		
		CP-100040			Error codes in 29.272 for Unknown MME		
		CP-100236		4	EPS Subcsriber State and Location Information Request		
		CP-100033			One time notification AVP allocation		
		CP-100046			Addition of the LCS-QoS-Class attribute value		ļ
		CP-100175	0182		Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
2010-06	CT#48	CP-100263		1	AVP Codes for PCC	9.2.0	9.3.
			0183		EPS state and location retrieval		ļ
		CP-100287			SGmb Application ID		ļ
	1	CP-100277			New APVs in S6a protocol		<u> </u>
2010-09	CT#49	CP-100463	0197	1	Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.
					interfaces		
		CP-100464			AVP Codes Allocation for PCC		
2010-09	CT#49	CP-100465			SIPTO Permission Indicator	9.4.0	10.0
		CP-100466			Location data including only serving node address		
		CP-100466		1	AVP for Update-Eff feature		
2010-12	CT#50	CP-100699			Enhanced SRVCC Subscriber Data	10.0.0	10.1
		CP-100687	0201		Allocate codes for AVPs on eMPS		
		CP-100683	0200	1	Allocate codes for AVPs on LIPA		
		CP-100688	0206	1	Periodic TAU/RAU timer in HSS subscription		
	1	CP-100846		1	S6a Error Diagnostic		
2011-03	CT#51	CP-110051	0212		PDP-Address correction	10.1.0	10.2
		CP-110054			Essential correction on the value type of the ELP Application AVPs		
		CP-110087			Minimization of Drive Tests (MDT)		
		CP-110088			Relay Node Indicator AVPs		
2011-06	CT#52	CP-110349			Handling of RTR for Emergency Registration	10.2.0	10.3
		CP-110347			Add AVPs from QSPEC cleanup		
	İ	CP-110359			MIPv4 security parameters on the STa and S6b interfaces	Ī	İ
		CP-110380			MDT user consent	1	İ
		CP-110370			AVP Code Allocation for Pre-paging	1	
		CP-110375			PUR-Flags AVP	1	
2011-09	CT#53	CP-110559			AVP code alignment with 29.212	10.3.0	10.4
2011-09					AVP code alignment with 32.299	1	-
2011-09		CP-110555	0239		TAVE COUE ANUTHTEN WILL 32.233		
2011-09		CP-110555 CP-110554			AVP code alignment with 29.214		

	1	CP-110555	0252		Failure code and AVP code alignment with 29.212	7	
		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
		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		
	1	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	0288		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
	0100	CP-120238			Adding new Diameter AVPs to Diameter table to support Trusted WLAN Access feature		
		CP-120225	0296	1	Trust Relationship Indication		
		CP-120251			Corrections to reference titles		
	İ	CP-120251	0298	1	Diameter Code Allocation for TS 29.219		
		CP-120247			Network Name AVP codes		
0040.00	OT#57	CP-120219			Duplicated AVP names	44.0.0	44.40
2012-09	CT#57	CP-120481 CP-120473			PS additional number allocation SMS in MME/SGSN	11.3.0	11.4.0
	1	CP-120473		_	AAA Failure Recovery AVP codes	-	
		CP-120474			Transport Access Type AVP for BBAI		
	Ì	CP-120480			Local Time Zone		
		CP-120472	0308	-	Allocating Application Identifier and command code for Tsp		
					interface		
		CP-120472	0309	-	Application Identifier, Command Codes and AVP range for S6m interface		
		CP-120667			GMLC-Name		
2040.40	OT#50	OD 400704	0313		Reference list correction to align with the corrected TS 29.212 title	44.40	44.5.0
2012-12	CT#58	CP-120731 CP-120731			T4 device triggering via IMS Codes and Identifier Allocation for T4 Specification	11.4.0	11.5.0
		CP-120731			AVP Code Allocation for 29.336	-	
	Ì	CP-120731			Diameter AVP code value allocation in TS 29.368		
		CP-120732	0319	2	Application Identifier, Command Codes and AVP codes for SGd, S6c		
		CP-120716 CP-120742			AVP name modification in TS 32.299 UE Time Zone AVP		
		CP-120741			Use of Flag instead of Enumerated AVPs		
		CP-120741	332	-	Use of Flag instead of Enumerated AVPs		
		CP-120743		-	PSI direct routing with restoration procedures		
0040.00	0.7	CP-120743		-	EPS LocationInformation Support	44.5.0	44.0.0
2013-03	CT#59	CP-130026 CP-130026			Diameter error code for TS 29.219 MDT parameters	11.5.0	11.6.0
2013-03	CT#59	CP-130026			New AVPs for Lgd interface	1160	12.0.0
2010 00	011100	CP-130030		-	Validity Time of Short Message	1110.0	12.0.0
2013-06	CT#60	CP-130288		1	Add new DER-S6b-flag AVP	12.0.0	12.1.0
		CP-130298		-	Failure Result Codes Allocation for TS 29.219		ļ
		CP-130292		-	Diameter AVP codes for new TS 32.299 AVPs		
		CP-130279 CP-130380			Definition of SS Status for Call Barring		
		CP-130360			New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP		
		01 100201	0040	_	procedures over Lgd interface		
		CP-130297			Application Port Identifier		
		CP-130374			MTRR on Sh		
		CP-130295			Restoration Priority during SGW and PGW restoration procedures	4	
	i	OD 1000=		1	SIPTO permission for Local Network enhancements	1	12 2 0
2012 00	CT#61	CP-130378				1210	
2013-09	CT#61	CP-130454	0364	2	New MBMS flag for eMBMS restoration	12.1.0	12.2.0
2013-09	CT#61		0364 0366	2	New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12	12.1.0	12.2.0
2013-09	CT#61	CP-130454 CP-130461	0364 0366	2	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-		
2013-09		CP-130454 CP-130461 CP-130460	0364 0366 0368	2	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	12.2.0	12.2.1
	CT#61 CT#62	CP-130454 CP-130461 CP-130460 CP-130624	0364 0366 0368 0369	2	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	12.2.0	12.2.1
2013-09		CP-130454 CP-130461 CP-130460	0364 0366 0368 0369 0370	2	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	12.2.0	12.2.1
2013-09		CP-130454 CP-130460 CP-130460 CP-130624 CP-130631 CP-130800 CP-130600	0364 0366 0368 0369 0370 0371 0376	2 - - - 1	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	12.2.0	12.2.1
2013-09		CP-130454 CP-130460 CP-130460 CP-130624 CP-130631 CP-130800 CP-130600 CP-130605	0364 0366 0368 0369 0370 0371 0376 0378	2 - - - 1	New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 32.299 Allocation of Diameter codes for 29.212	12.2.0	12.2.1
2013-09		CP-130454 CP-130460 CP-130460 CP-130624 CP-130631 CP-130800 CP-130600	0364 0366 0368 0369 0370 0371 0376 0378 0380	2 - - - 1 1 - 1	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	12.2.0	12.2.1

		CP-140023			Definition of WLAN-related AVPs		
2014-06	CT#64	CP-140211	0385	1	Protocol enhancements to indicate support of device recall and	12.4.0	12.5.0
		CP-140251	0402	1	replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic	┨	
		CP-140257			SS-Status AVP Definition	1	
		CP-140252	0392	-	Definition of AVPs for Network Location in TWLAN	j	
		CP-140236			TWAN-BSSID AVP re-naming]	
		CP-140247			New AVPs for Trusted WLAN access	1	
2044.00	OT#05	CP-140231			Adding Codes for 29.214	40.50	40.07
2014-09	CT#65	CP-140515 CP-140517			T-GRUU restoration MB2-C codes	12.5.0	12.6.0
		CP-140517	0404	1	New AVPs for Trusted WLAN access	4	
		CP-140506			P-CSCF Restoration indication	1	
		CP-140516			Closing TS 29.234 and reused AVP in TS 29.273	1	
		CP-140513	0408	-	Identification of the HSS]	
					Editorial: WLAN-offloadability AVP codes added as in CR C4-		
0044.40	CT#66	CP-140785	0400	1	141648. New AVP for MBMS restoration	12.6.0	107/
2014-12	C1#66	CP-140765	0409		New Diagnostic-Info AVP for MBMS restoration	12.6.0	12.7.
	ŀ		0410		WLCP key for WLCP signalling protection	1	
	İ		0411		Reset-ID	1	
	ĺ		0416		Code definitions for 32.299	1	
			0428		Removal of I-WLAN AVPs]	
			0429		Reference correction	_	ļ
			0433		Code allocation for 29.212	1	
			0418		MDT PLMN List	4	
			0422 0423		Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco	┨	ļ
			0423		Allocation of values for Application ID, Command codes, AVP	┪	
			0-10-1		codes and Experimental-Result codes used in the TS 29.345		
			0434	1	Command Code and Error Code for ProSe Initial Location	Ī	
					Information Retrieval	<u> </u>	
			0425		Corrections of the type of some AVPs	<u> </u>	
			0426		OFR-Flags AVP code	4	ļ
2015-03	CT#67	CP-150015	0427		P-CSCF Restoration mechanism new error Renaming of Location-Type AVP	12.7.0	12.0
2013-03	01#01	C1 -130013	0437		Location reporting in emergency 1xSRVCC	12.7.0	12.0.
			0435		AVP codes for GCSE MB2-C	1	
			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)	1	
	ļ		0440		Location Update Trigger	1	
			0441 0443		AVP codes allocation for Validity related AVPs for TS 29.345 Allocation of codes for the Integrity Checks. Aspect AVPs	4	
2015-03	CT#67	CP-150039			Diameter Application Identifier for Np protocol	12.8.0	13.0
2015-06		CP-150257			AVP code allocation for Match Refresh Timer AVP in TS 29.345	13.0.0	
	000	CP-150247			Wrong CR implementation of CR 0416r1	10.0.0	
	ĺ	CP-150249			AVP code allocation for 32.299	1	
		CP-150263		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.
	ļ	CP-150442			Overlapping transaction over S6b	4	
		CP-150453			Addition of IMSI Group Id AVP definition Addition of CP parameter AVP definition	┨	ļ
		CD 150440	10165				Į.
		CP-150449 CP-150431				i	
		CP-150449 CP-150431 CP-150456	0470	1	AVP codes for TS 29.212 AVP definition for S6t	<u> </u>	
2015-12	CT#70	CP-150431	0470 0471	1	AVP codes for TS 29.212	13.2.0	13.3.
2015-12	CT#70	CP-150431 CP-150456 CP-150761 CP-150778	0470 0471 0473 0474	1 3 -	AVP codes for TS 29.212 AVP definiton for S6t Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes	13.2.0	13.3.
2015-12	CT#70	CP-150431 CP-150456 CP-150761 CP-150778 CP-150778	0470 0471 0473 0474 0474	1 3 - -	AVP codes for TS 29.212 AVP definiton for S6t Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities	13.2.0	13.3.
2015-12	CT#70	CP-150431 CP-150456 CP-150761 CP-150778 CP-150778 CP-150778	0470 0471 0473 0474 0474 0490	1 3 - - 1 1	AVP codes for TS 29.212 AVP definiton for S6t Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface	13.2.0	13.3.
2015-12	CT#70	CP-150431 CP-150456 CP-150761 CP-150778 CP-150778	0470 0471 0473 0474 0474 0490	1 3 - - 1 1	AVP codes for TS 29.212 AVP definiton for S6t Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-	13.2.0	13.3.
2015-12	CT#70	CP-150431 CP-150456 CP-150761 CP-150778 CP-150778 CP-150778 CP-150778	0470 0471 0473 0474 0474 0490 0491	1 3 - - 1 1	AVP codes for TS 29.212 AVP definiton for S6t Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types	13.2.0	13.3.
2015-12	CT#70	CP-150431 CP-150456 CP-150761 CP-150778 CP-150778 CP-150778	0470 0471 0473 0474 0474 0490 0491	1 3 - - 1 1	AVP codes for TS 29.212 AVP definiton for S6t Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a	13.2.0	13.3.
2015-12	CT#70	CP-150431 CP-150456 CP-150761 CP-150778 CP-150778 CP-150778 CP-150778	0470 0471 0473 0474 0474 0490 0491	1 3 - - 1 1 1	AVP codes for TS 29.212 AVP definiton for S6t Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE)	13.2.0	13.3.
2015-12	CT#70	CP-150431 CP-150456 CP-150761 CP-150778 CP-150778 CP-150778 CP-150778	0470 0471 0473 0474 0474 0490 0491 0494	1 3 - - 1 1 1 2	AVP codes for TS 29.212 AVP definiton for S6t Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration	13.2.0	13.3.
2015-12	CT#70	CP-150431 CP-150456 CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150777 CP-150777	0470 0471 0473 0474 0474 0490 0491 0494 0501 0502 0475	1 3 - - 1 1 1 2	AVP codes for TS 29.212 AVP definiton for S6t Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For- Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access	13.2.0	13.3.
2015-12	CT#70	CP-150431 CP-150456 CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778	0470 0471 0473 0474 0474 0490 0491 0494 0501 0502 0475	1 3 - - 1 1 1 2	AVP codes for TS 29.212 AVP definiton for S6t Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not	13.2.0	13.3.
2015-12	CT#70	CP-150431 CP-150456 CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776	0470 0471 0473 0474 0474 0490 0491 0494 0501 0502 0475	1 3 - - 1 1 1 2 1 2	AVP codes for TS 29.212 AVP definiton for S6t Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving	13.2.0	13.3.
2015-12	CT#70	CP-150431 CP-150456 CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776 CP-150776	0470 0471 0473 0474 0474 0490 0491 0501 0502 0475 0497	1 3 - - 1 1 1 2 1 2 1 - 1	AVP codes for TS 29.212 AVP definiton for S6t Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX	13.2.0	13.3.0
2015-12	CT#70	CP-150431 CP-150456 CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776	0470 0471 0473 0474 0474 0490 0491 0501 0502 0475 0497	1 3 - - 1 1 1 2 1 2 1 - 1	AVP codes for TS 29.212 AVP definiton for S6t Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX	13.2.0	13.3.0
2015-12	CT#70	CP-150431 CP-150456 CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776 CP-150776	0470 0471 0473 0474 0490 0491 0494 0501 0502 0475 0497 0498	1 3 	AVP codes for TS 29.212 AVP definiton for S6t Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX	13.2.0	13.3.

		CP-150772	0489	-	Addition of AVPs and result-codes		
		CP-150772	0500	-	Addition of AVP used in match report procedure for eProSe-Ext-CT		
		CP-150754	0481	1	Allowed WAF and/or WWSF Identities		
Ĭ		CP-150773			Add the default access type to 3GPP specific AVP		
Ĭ		CP-150781	0484	1	AVP code allocation for "UE Usage Type"		
Ĭ		CP-150755	0486	-	Metadata in Match-Report		
		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		
		CP-150776	0495	1	AVP codes for Indoor Positioning support in SLg/Lgd		
2016-03	CT#71	CP-160041	0503	-	Application ID for St	13.3.0	13.4.0
Ĭ		CP-160041	0506	1	Correction on TS numbers		
Ĭ		CP-160041	0510	-	AVPs for the Rx Diameter application		
		CP-160041	0514	2	AVP code reservation for 32.299		
		CP-160041	0518	1	Codes for 29.212		
		CP-160029	0505	3	New AVP assignment for MONTE		
		CP-160029	0509	-	Change of type of Monitoring-Duration AVP to represent an		
					absolute time	ļ	
		CP-160035	0507	-	Remove the default access AVP	J	
		CP-160035	0508	-	Specific AVP codes for NBIFOM	J	
		CP-160030	0511	-	Alert procedure from MME/SGSN to SMS-GMSC for MT SMS to		
					UE using eDRX	Į	
		CP-160037			ePDG retrieval of WLAN Location Information	Į	[
		CP-160033			Definition of AVP Authorization of NIDD	Į	Į
		CP-160033			New PDN-Type for Cellular IoT	Į	Į
		CP-160036			Monitoring update and Reporting of update result		[
		CP-160036	0519	3	Allocation of new Diameter Application ID and commands code for		
					PC2 protocol		

History

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