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Foreword

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1 Scope

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

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

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
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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*.

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[1]	3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and message contents".
[2]	3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter protocol; Protocol details".
[3]	3GPP TS 29.328: "IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents".
[4]	3GPP TS 29.329: "Sh Interface based on the Diameter protocol; Protocol details".
[5]	3GPP TS 32.299: "Telecommunication management; Charging management; Diameter charging applications".
[6]	3GPP TS 29.234, Release 11: "3GPP system to Wireless Local Area Network (WLAN) interworking; Stage 3".
[7]	3GPP TS 29.109: "Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Stage 3".
[8]	3GPP TS 29.209, Release 6: "Policy control over Gq interface".
[9]	IETF RFC 3588: "Diameter Base Protocol".
[10]	IETF RFC 3589: "Diameter Command Codes for Third Generation Partnership Project (3GPP) Release 5".
[11]	IANA"s Enterprise-Numbers: http://www.iana.org/assignments/enterprise-numbers
[12]	IANA"s AAA parameters register: ftp://ftp.iana.org/assignments/aaa-parameters/
[13]	3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".
[14]	3GPP TS 32.296: "Telecommunication management; Charging management; Online Charging System (OCS): Applications and interfaces".
[15]	3GPP TS 29.210, Release 6: "Charging rule provisioning over Gx interface".
[16]	3GPP TS 29.140 Release 6: "Multimedia Messaging Service (MMS); MM10 interface based on

 [17] 3GPP TS 29.211, Release 6: "Rx Interface and Rx/Gx signalling flows". [18] 3GPP TS 29.214: "Policy and Charging Control over Rx reference point". [19] 3GPP TS 29.212: "Policy and Charging Control (PCC);Reference points". [20] 3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces". [21] 3GPP TS 29.272: "Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol". [22] 3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point; Stage 3". [23] IETF RFC 5516: "Diameter Command Code Registration for Third Generation Partnership Projec (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 29.348: "Group Communication System Enablers for LTE (GCSE_LTE)". [32] 3GPP TS 29.344: "Proximity-services (ProSe) function to ProSe application server aspects (PCC)". [33] 3GPP TS 29.344: "Proximity-services (ProSe) Function to Home Subscriber Server (HSS) aspects". [34] 3GPP TS 29.345: "Inter-Proximity-services (ProS		
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aspects".	[32]	
[34] 3GPP TS 29.345: "Inter-Proximity-services (Prose) function signalling aspects; Stage 3".	[33]	
	[34]	3GPP TS 29.345: "Inter-Proximity-services (Prose) function signalling aspects; Stage 3".

3 Definitions and abbreviations

3.1 Definitions

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

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

3.2 Abbreviations

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

AVP Attribute-Value-Pair CR Change Request

IANA Internet Assigned Numbers Authority

IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

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

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

4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

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

5 Command codes

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

5.1 Command codes allocated for 3GPP

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

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

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

6 Vendor identifier

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

6.1 3GPP"s vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
102	3GPP-WLAN-QoS-Filter-Support	OctetString	
Note:	The AVP codes from 1 to 255 are reserved for backwards compatibilit	y with 3GPP RADIUS Ve	ndor Specific
Attribu	utes (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	
	Authentication-Information-SIM	OctetString	
302	Authorization -Information-SIM	OctetString	
303	WLAN-User-Data	Grouped	
	Charging-Data	Grouped	
	WLAN-Access	Enumerated	
	WLAN- 3GPP-IP-Access	Enumerated	
	APN-Authorized	Grouped	
308	APN-Id		
	APN-Barring-Type	Enumerated	29.234 [6]
	WLAN-Direct-IP-Access	Enumerated	23.254 [0]
	Session-Request-Type	Enumerated	
	Routing-Policy	IPFilterRule	
	Max-Requested-Bandwidth	OctetString	
314	Charging-Characteristics	Integer	
	Charging-Nodes	Grouped	
316	Primary-OCS-Charging-Function-Name	DiameterIdentity	
317	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
318	3GPP-AAA-Server-Name	DiameterIdentity	
319	Maximum-Number-Accesses	Unsigned32	
Note '	1: The AVP codes from 320 to 399 are reserved for TS 29.234		
	2: The 3GPP-AAA-Server-Name definition is moved to TS 29.273 start	ting from Rel-12.	
	GBA-UserSecSettings	OctetString	
	Transaction-Identifier NAF-Hostname	OctetString OctetString	
	GAA-Service-Identifier	OctetString	-
	Key-ExpiryTime	Time	-
405	ME-Key-Material	OctetString	
406	UICC-Key-Material	OctetString	
407	GBA_U-Awareness-Indicator	Enumerated	
	BootstrapInfoCreationTime	Time	
409	GUSS-Timestamp GBA-Type	Time Enumerated	29.109 [7]
	UE-Id	OctetString	29.109[7]
	UE-Id-Type	Enumerated	-
413	UICC-App-Label	OctetString	1
	UICC-MÉ	Enumerated	
415	Requested-Key-Lifetime	Time	
	Private-Identity-Request	Enumerated	
	GBA-Push-Info NAF-SA-Identifier	OctetString OctetString	
410	Security-Feature-Request	OctetString	
	Security Feature-Response	OctetString	-
	The AVP codes from 421 to 499 are reserved for TS 29.109		
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	
	Access-Network-Charging-Identifier	Grouped	
	Access-Network-Charging-Identifier-Value	OctetString	29.209 [8],
	AF-Application-Identifier	OctetString	29.211 [17] ,
	AF-Charging-Identifier	OctetString	29.214 [18]
	Authorization-Token	OctetString	1
	Flow-Description	IPFilterRule	1
	· · · · · = · · · · · · · · · · · ·		l.

508	Flow-Grouping	Grouped	
509	Flow-Number	Unsigned32	
510	Flows	Grouped	
511	Flow-Status	Enumerated	
512	Flow-Usage	Enumerated	
	Specific-Action	Enumerated	
	Max-Requested-Bandwidth	Unsigned32	
	Max-Requested-Bandwidth-DL	Unsigned32	
	Max-Requested-Bandwidth-UL	Unsigned32	
	Media-Component-Description	Grouped	
	Media-Component-Number	Unsigned32	
	Media-Sub-Component AVP	Grouped	
520	Media-Type	Enumerated	
	RR-Bandwidth	Unsigned32	
522	RS-Bandwidth	Unsigned32	
	SIP-Forking-Indication	Enumerated	
	Codec-Data	OctetString	
	Service-URN	OctetString	
	Acceptable-Service-Info	Grouped	
	Service-Info-Status	Enumerated	
	MPS-Identifier	OctetString	
	AF-Signalling-Protocol	Enumerated	
530	Sponsored-Connectivity-Data	Grouped	
	Sponsor-Identity	OctetString	
	Application-Service-Provider-Identity	OctetString	
	Rx-Request-Type	Enumerated	
	Min-Requested-Bandwidth-DL	Unsigned32	
	Min-Requested-Bandwidth-UL		
		Unsigned32	
	Required-Access-Info	Enumerated	
	IP-Domain-Id	OctetString	
	GCS-Identifier	OctetString	
Note:	The AVP codes from 539 to 599 are reserved for TS 29.209, TS 29.20	11 and TS 29.214	
600	Visited-Network-Identifier	OctetString	
601	Public-Identity	UTF8String	
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
		,	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
609	SIP-Authenticate	OctetString	
610	SIP-Authorization	OctetString	
611	SIP-Authentication-Context	OctetString	
	SIP-Auth-Data-Item	Grouped	
	SIP-Item-Number	Unsigned32	
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	20, 200 [0]
	Reason-Code	Enumerated	29.229 [2]
	Reason-Info	UTF8String	
	Charging-Information	Grouped	
	Primary-Event-Charging-Function-Name	DiameterURI	
	Secondary-Event-Charging-Function-Name	DiameterURI	
	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
	User-Authorization-Type	Enumerated	
	User-Data-Already-Available	Enumerated	
	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	
627	User-Data-Request-Type	Enumerated	
		O	
628	Supported-Features	Grouped	
628	Supported-Features Feature-List-ID	Unsigned32	
628 629			
628 629 630	Feature-List Feature-List	Unsigned32 Unsigned32	
628 629 630 631	Feature-List-ID	Unsigned32	

	<u>, </u>		
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
	SCSCF-Restoration-Info	Grouped	
	Path	OctetString	
	Contact	OctetString	
	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
645	To-SIP-Header	OctetString	
	Record-Route	OctetString	
647	Associated-Registered-Identities	Grouped	
	Multiple-Registration-Indication	Enumerated	
	Restoration-Info	Grouped	
	Session-Priority	Enumerated	
651	Identity-with-Emergency-Registration	Grouped	
	Priviledged-Sender-Indication	Enumerated	
	LIA-Flags	Unsigned32	
	Initial-CSeq-Sequence-Number	Unsigned32	
	SAR-Flags	Unsigned32	
656	Allowed-WAF-WWSF-Identities	Grouped	
	WebRTC-Authentication-Function-Name	UTF8String	
	WebRTC-Web-Server-Function-Name	UTF8String	
Note:	The AVP codes from 659 to 699 are reserved for TS 29.229.	<u> </u>	
	User-Identity	Grouped	
	MSISDN	OctetString	
702	User-Data	OctetString	
703	Data-Reference	Enumerated	
704	Service-Indication	OctetString	
705	Subs-Req-Type	Enumerated	
	Requested-Domain	Enumerated	
	Current-Location	Enumerated	
708	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
711	DSAI-Tag	OctetString	29.329 [4]
712	One-Time-Notification	Enumerated	
	Requested-Nodes	Unsigned32	
	Serving-Node-Indication	Enumerated	
	Repository-Data-ID	Grouped	
	Sequence-Number	Unsigned32	
	Pre-paging-Supported	Enumerated	
	Local-Time-Zone-Indication	Enumerated	
	UDR-Flags	Unsigned32	
	Call-Reference-Info	Grouped	
	Call-Reference-Number	OctetString	
	AS-Number	OctetString	
	The AVP codes from 723 to 799 are reserved for TS 29.329.	2 3.0.019	
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
	Event-Type	Grouped	
	SIP-Method	UTF8String	
	Event	UTF8String	
	Content-Type	UTF8String	
	Content-Length	Unsigned32	
	Content-Disposition	UTF8String	
	Role-of-Node	Enumerated	32.299 [5]
	User-Session-Id	UTF8String	02.200 [0]
	Calling-Party-Address	UTF8String	
	Called-Party-Address	UTF8String	
	Time-Stamps	Grouped	
	SIP-Request-Timestamp	Time	
1 ひろう	SIP-Response-Timestamp	Time	

	Application-Server	UTF8String
	Application-provided-called-party-address	UTF8String
	Inter-Operator-Identifier	Grouped
	Originating-IOI	UTF8String
	Terminating-IOI	UTF8String
	IMS-Charging-Identifier	UTF8String
842	SDP-Session-Description	UTF8String
	SDP-Media-Component	Grouped
844	SDP-Media-Name	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
	Outgoing-Trunk-Group-Id	UTF8String
	Bearer-Service	OctetString
	Service-Id	UTF8String
	Associated-URI	UTF8String
	Charged-Party	UTF8String
	PoC-Controlling-Address	UTF8String
	PoC-Group-Name	UTF8String
	Cause	Grouped
	Cause-Code	Integer32
	Node-Functionality	Enumerated
	Service-Specific-Data	UTF8String
	Originator	Enumerated
	PS-Furnish-Charging-Information	Grouped
	PS-Free-Format-Data	OctetString
	PS-Append-Free-Format-Data	Enumerated
	Time-Quota-Threshold	Unsigned32
	Volume-Quota-Threshold	Unsigned32
	Trigger-Type	Enumerated
871	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
880	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
	Expires	Unsigned32
	Message-Body	Grouped
	Reserved	-
	Reserved	
	Reserved	
ഉമാ		
893	Reserved	-
893 894	Reserved Reserved	-
893 894 895	Reserved Reserved	
893 894 895 896	Reserved Reserved Reserved Reserved	
893 894 895 896 897	Reserved Reserved Reserved Reserved Address-Data	- - - - UTF8String
893 894 895 896 897 898	Reserved Reserved Reserved Reserved	

	TMGI	OctectString	
901	Required-MBMS-Bearer-Capabilities	UTF8String	
902	MBMS-StartStop-Indication	Enumerated	
903	MBMS-Service-Area	OctectString	
904	MBMS-Session-Duration	Unsigned32	
905	Alternative-APN	UTF8String	
	MBMS-Service-Type	Enumerated	
	MBMS-2G-3G-Indicator	Enumerated	
	MBMS-Session-Identity	OctetString	
909		UTF8String	
	Additional-MBMS-Trace-Info	OctetString	
	MBMS-Time-To-Data-Transfer	Unsigned32	
	MBMS-Session-Identity-Repetition-Number	Unsigned32	
	MBMS-Required-QoS	UTF8String	
	MBMS-Counting-Information	Enumerated	
	MBMS-User-Data-Mode-Indication	Enumerated	
	MBMS-GGSN-Address	UTF8String	29.061 [13]
	MBMS-GGSN-IPv6-Address	UTF8String	
	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	OctetString	
	MBMS-GW-UDP-Port-Indicator	Enumerated	
	MBMS-Data-Transfer-Start	Unsigned64	
	MBMS-Data-Transfer-Stop	Unsigned64	
	MBMS-Flags	Unsigned32	
	Restart-Counter	Unsigned32	
	Diagnostic-Info	Unsigned32	
	The AVP codes from 934 to 999 are reserved for TS 29.061		
	Bearer-Usage	Enumerated	
	Charging-Rule-Install	Grouped	
	Charging-Rule-Remove	Grouped	
1003	Charging-Rule-Definition	Grouped	
	Charging-Rule-Base-Name	UTF8String	
1005	Charging-Rule-Name	OctetString	
1006	Event-Trigger	Enumerated	
1007			
	Metering-Method	Enumerated	
	Offline	Enumerated Enumerated	
1009 1010	Offline Online Precedence	Enumerated	
1009 1010	Offline Online	Enumerated Enumerated	
1009 1010 1011	Offline Online Precedence	Enumerated Enumerated Unsigned32	
1009 1010 1011 1012	Offline Online Precedence Reporting-Level	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule	
1009 1010 1011 1012 1013	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped	
1009 1010 1011 1012 1013 1014	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information ToS-Traffic-Class	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped OctetString	29.212 [19]
1009 1010 1011 1012 1013 1014 1016	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information ToS-Traffic-Class QoS-Information	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped OctetString Grouped	29.212 [19]
1009 1010 1011 1012 1013 1014 1016 1018	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information ToS-Traffic-Class QoS-Information Charging-Rule-Report	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped OctetString Grouped Grouped	29.212 [19]
1009 1010 1011 1012 1013 1014 1016 1018 1019	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information ToS-Traffic-Class QoS-Information Charging-Rule-Report PCC-Rule-Status	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped OctetString Grouped Grouped Enumerated	29.212 [19]
1009 1010 1011 1012 1013 1014 1016 1018 1019	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information ToS-Traffic-Class QoS-Information Charging-Rule-Report PCC-Rule-Status Bearer-Identifier	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped OctetString Grouped Grouped Enumerated OctetString	29.212 [19]
1009 1010 1011 1012 1013 1014 1016 1018 1019 1020 1021	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information ToS-Traffic-Class QoS-Information Charging-Rule-Report PCC-Rule-Status Bearer-Identifier Bearer-Operation	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped OctetString Grouped Grouped Enumerated OctetString Enumerated	29.212 [19]
1009 1010 1011 1012 1013 1014 1016 1018 1019 1020 1021	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information ToS-Traffic-Class QoS-Information Charging-Rule-Report PCC-Rule-Status Bearer-Identifier Bearer-Operation Access-Network-Charging-Identifier-Gx	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped OctetString Grouped Grouped Enumerated OctetString Enumerated OctetString	29.212 [19]
1009 1010 1011 1012 1013 1014 1016 1018 1019 1020 1021 1022 1023	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information ToS-Traffic-Class QoS-Information Charging-Rule-Report PCC-Rule-Status Bearer-Identifier Bearer-Operation Access-Network-Charging-Identifier-Gx Bearer-Control-Mode	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped OctetString Grouped Grouped Enumerated OctetString Enumerated OctetString Enumerated Grouped Enumerated	29.212 [19]
1009 1010 1011 1012 1013 1014 1016 1018 1019 1020 1021 1022 1023 1024	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information ToS-Traffic-Class QoS-Information Charging-Rule-Report PCC-Rule-Status Bearer-Identifier Bearer-Operation Access-Network-Charging-Identifier-Gx Bearer-Control-Mode Network-Request-Support	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped OctetString Grouped Grouped Enumerated OctetString Enumerated OctetString Enumerated Grouped Enumerated Grouped Enumerated Grouped Enumerated	29.212 [19]
1009 1010 1011 1012 1013 1014 1016 1018 1019 1020 1021 1022 1023 1024 1025	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information ToS-Traffic-Class QoS-Information Charging-Rule-Report PCC-Rule-Status Bearer-Identifier Bearer-Operation Access-Network-Charging-Identifier-Gx Bearer-Control-Mode Network-Request-Support Guaranteed-Bitrate-DL	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped OctetString Grouped Grouped Enumerated OctetString Enumerated Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32	29.212 [19]
1009 1010 1011 1012 1013 1014 1016 1018 1020 1021 1022 1023 1024 1025 1026	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information ToS-Traffic-Class QoS-Information Charging-Rule-Report PCC-Rule-Status Bearer-Identifier Bearer-Operation Access-Network-Charging-Identifier-Gx Bearer-Control-Mode Network-Request-Support Guaranteed-Bitrate-DL Guaranteed-Bitrate-UL	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped OctetString Grouped Grouped Enumerated OctetString Enumerated Grouped Enumerated Unsigned32 Unsigned32	29.212 [19]
1009 1010 1011 1012 1013 1014 1016 1018 1019 1020 1021 1022 1023 1024 1025 1026	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information ToS-Traffic-Class QoS-Information Charging-Rule-Report PCC-Rule-Status Bearer-Identifier Bearer-Operation Access-Network-Charging-Identifier-Gx Bearer-Control-Mode Network-Request-Support Guaranteed-Bitrate-DL Guaranteed-Bitrate-UL IP-CAN-Type	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped OctetString Grouped Grouped Enumerated OctetString Enumerated Grouped Enumerated Unsigned32 Unsigned32 Enumerated	29.212 [19]
1009 1010 1011 1012 1013 1014 1016 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information ToS-Traffic-Class QoS-Information Charging-Rule-Report PCC-Rule-Status Bearer-Identifier Bearer-Operation Access-Network-Charging-Identifier-Gx Bearer-Control-Mode Network-Request-Support Guaranteed-Bitrate-DL Guaranteed-Bitrate-UL IP-CAN-Type QoS-Class-Identifier	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped OctetString Grouped Grouped Enumerated OctetString Enumerated Grouped Enumerated Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Enumerated	29.212 [19]
1009 1010 1011 1012 1013 1014 1016 1018 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information ToS-Traffic-Class QoS-Information Charging-Rule-Report PCC-Rule-Status Bearer-Identifier Bearer-Operation Access-Network-Charging-Identifier-Gx Bearer-Control-Mode Network-Request-Support Guaranteed-Bitrate-DL Guaranteed-Bitrate-UL IP-CAN-Type QoS-Class-Identifier QoS-Negotiation	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped OctetString Grouped Grouped Enumerated OctetString Enumerated Grouped Enumerated Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Enumerated Enumerated	29.212 [19]
1009 1010 1011 1012 1013 1014 1016 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030	Offline Online Precedence Reporting-Level TFT-Filter TFT-Packet-Filter-Information ToS-Traffic-Class QoS-Information Charging-Rule-Report PCC-Rule-Status Bearer-Identifier Bearer-Operation Access-Network-Charging-Identifier-Gx Bearer-Control-Mode Network-Request-Support Guaranteed-Bitrate-DL Guaranteed-Bitrate-UL IP-CAN-Type QoS-Class-Identifier	Enumerated Enumerated Unsigned32 Enumerated IPFilterRule Grouped OctetString Grouped Grouped Enumerated OctetString Enumerated Grouped Enumerated Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Enumerated	29.212 [19]

1032 RAT-Type	Enumerated
1033 Event-Report-Indication	Grouped
1034 Allocation-Retention-Priority	Grouped
1035 CoA-IP-Address	Address
1036 Tunnel-Header-Filter	IPFilterRule
1037 Tunnel-Header-Length	Unsigned32
1038 Tunnel-Information	Grouped
1039 CoA-Information	Grouped
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32
1041 APN-Aggregate-Max-Bitrate-UL	Unsigned32
1042 Revalidation-Time	Time
1043 Rule-Activation-Time	Time
1044 Rule-DeActivation-Time	Time
1045 Session-Release-Cause	Enumerated
1046 Priority-Level	Unsigned32
1047 Pre-emption-Capability	Enumerated
1048 Pre-emption-Vulnerability	Enumerated
1049 Default-EPS-Bearer-QoS	Grouped
1050 AN-GW-Address	Address
1051 QoS-Rule-Install	Grouped
1052 QoS-Rule-Remove	Grouped
1053 QoS-Rule-Definition	Grouped
1054 QoS-Rule-Name	OctetString
1055 QoS-Rule-Report	Grouped
1056 Security-Parameter-Index	OctetString
1057 Flow-Label	OctetString
1058 Flow-Information	Grouped
1059 Packet-Filter-Content	IPFilterRule
1060 Packet-Filter-Identifier	OctetString
1000 Packet-Filter-Information	Grouped
1062 Packet-Filter-Operation	Enumerated
1062 Facket-Filter-Operation 1063 Resource-Allocation-Notification	
	Enumerated
1064 Session-Linking-Indicator 1065 PDN-Connection-ID	Enumerated
	OctetString
1066 Monitoring-Key	OctetString
1067 Usage-Monitoring-Information	Grouped
1068 Usage-Monitoring-Level	Enumerated
1069 Usage-Monitoring-Report	Enumerated
1070 Usage-Monitoring-Support	Enumerated
1071 CSG-Information-Reporting	Enumerated
1072 Packet-Filter-Usage	Enumerated
1073 Charging-Correlation-Indicator	Enumerated
1074 QoS-Rule-Base-Name	UTF8String
1075 Routing-Rule-Remove	Grouped
1076 Routing-Rule-Definition	Grouped
1077 Routing-Rule-Identifier	OctetString
1078 Routing-Filter	Grouped
1079 Routing-IP-Address	Address
1080 Flow-Direction	Enumerated
1081 Routing-Rule-Install	Grouped
1085 Redirect-Information	Grouped
1086 Redirect- Support	Enumerated
1087 TDF-Information	Grouped
1088 TDF-Application-Identifier	OctetString
1089 TDF-Destination-Host	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 1082 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	I ITEQQtring	
1200 Domain-Name 1201 Recipient-Address	UTF8String Grouped	
1201 Recipient-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	
1217 Adaptations	Enumerated	
1218 Applic-ID	UTF8String	
1219 Aux-Applic-Info	UTF8String	
1220 Content-Class	Enumerated	
1221 DRM-Content	Enumerated	32.299 [5]
1222 Read-Reply-Report-Requested	Enumerated	02.200 [0]
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 Address	
1228 SGSN-Address 1229 PoC-Session-Id	UTF8String	
1239 PoC-Session-id 1230 Deferred-Location-Even-Type	UTF8String UTF8String	
1230 Deletred-Location-Even-Type	UTF8String	
1231 LCS-AFN 1232 LCS-Client-Id	Grouped	
1233 LCS-Client-Dialed-By-MS	UTF8String	
1234 LCS-Client-External-ID	UTF8String	
1235 LCS-Client-Name	Grouped	
1236 LCS-Data-Coding-Scheme	UTF8String	
1237 LCS-Format-Indicator	Enumerated	
1238 LCS-Name-String	UTF8String	
1239 LCS-Requestor-Id	Grouped	
1240 LCS-Requestor-Id-String	UTF8String	
1241 LCS-Client-Type	Enumerated	
1242 Location-Estimate	OctetString	
1243 Location-Estimate-Type	Enumerated	
		

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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	UTF8String	
1252 PoC-User-Role	Grouped	
1253 PoC-User-Role-IDs	UTF8String	
1254 PoC-User-Role-info-Units	Enumerated	
1255 Talk-Burst-Exchange	Grouped	
1256 Service-Generic-Information	Grouped	
1257 Service-Specific-Type	Unsigned32	
1258 Event-Charging-TimeStamp	Time	
1259 Participant-Access-Priority	Enumerated	
1260 Participant-Group	Grouped	
1261 PoC-Change-Conditions	Enumerated	
1262 PoC-Change-Time	Time	
1263 Access-Network-Information	OctetString	
1264 Trigger	Grouped	
1265 Base-Time-Interval	Unsigned32	
1266 Envelope	Grouped	
1267 Envelope-End-Time	Time	
1268 Envelope-Reporting	Enumerated	
1269 Envelope-Start-Time	Time	
1270 Time-Quota-Mechanism	Grouped	
1271 Time-Quota-Type	Enumerated	
1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps 1274 SDP-Offer-Timestamp	Grouped Time	
1274 SDP-Oller-Timestamp	Time	
1276 AF-Correlation-Information		
1277 PoC-Session-Initiation-type	Grouped Enumerated	
1277 Poc-Session-Initiation-type	Grouped	
1276 Online-Charging 1279 User-Participating-Type	Enumerated	
1279 Oser-Participating-Type 1280 Alternate-Charged-Party-Address	UTF8String	
1280 Mis-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	C 11 County	
1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	
1403 Software-Version	UTF8String	
1404 QoS-Subscribed	UTF8String	
1405 ULR-Flags	Unsigned32	
1406 ULA-Flags	Unsigned32	
1407 Visited PLMN Id	OctetString	
1408 Requested-EUTRAN-Authentication-Info	Grouped	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped	29.272 [21]
1410 Number-Of-Requested-Vectors	Unsigned32	[_ 1]
1411 Re-Synchronization-Info	OctetString	
1412 Immediate-Response-Preferred	Unsigned32	
1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	
1417 Network-Access-Mode	Enumerated	
1418 HPLMN-ODB	Enumerated	
-		

1419 Item-Number	Unsigned32
1420 Cancellation-Type	Enumerated
1421 DSR-Flags	Unsigned32
1422 DSA-Flags	Unsigned32
1423 Context-Identifier	Unsigned32
1424 Subscriber-Status	Enumerated
1425 Operator-Determined-Barring	Unsigned32
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
1447 RAND	
	OctetString
1449 AUTN	OctetString
1450 KASME	OctetString
1451 Reserved	A d de a
1452 Trace-Collection-Entity	Address
1452 Trace-Collection-Entity 1453 Kc	OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES	
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved	OctetString OctetString -
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type	OctetString OctetString - Enumerated
1452Trace-Collection-Entity1453Kc1454SRES1455Reserved1456PDN-Type1457Roaming-Restricted-Due-To-Unsupported-Feature	OctetString OctetString - Enumerated Enumerated
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data	OctetString OctetString - Enumerated Enumerated Grouped
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference	OctetString OctetString - Enumerated Enumerated
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved	OctetString OctetString - Enumerated Enumerated Grouped
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved	OctetString OctetString - Enumerated Enumerated Grouped OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth	OctetString OctetString - Enumerated Enumerated Grouped OctetString - Enumerated
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List	OctetString OctetString - Enumerated Enumerated Grouped OctetString Enumerated OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List	OctetString OctetString - Enumerated Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List	OctetString OctetString - Enumerated Enumerated Grouped OctetString - Enumerated OctetString OctetString OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id	OctetString OctetString - Enumerated Enumerated Grouped OctetString - Enumerated OctetString OctetString OctetString OctetString OctetString OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-Depth 1463 Trace-Interface-List 1464 Trace-Interface-List 1466 OMC-Id 1467 GPRS-Subscription-Data	OctetString OctetString - Enumerated Enumerated Grouped OctetString - Enumerated OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-Depth 1463 Trace-Interface-List 1464 Trace-Interface-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator	OctetString OctetString - Enumerated Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString Enumerated OctetString OctetString OctetString OctetString OctetString OctetString OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1461 Trace-Depth 1463 Trace-Depth 1463 Trace-Interface-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context	OctetString OctetString - Enumerated Enumerated Grouped OctetString Enumerated OctetString Grouped Enumerated Grouped
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1461 Trace-Depth 1463 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type	OctetString OctetString - Enumerated Enumerated Grouped OctetString - Enumerated OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1461 Trace-Depth 1463 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID	OctetString OctetString - Enumerated Enumerated Grouped OctetString Enumerated OctetString Grouped Enumerated Grouped
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info	OctetString OctetString - Enumerated Enumerated Grouped OctetString Enumerated OctetString Grouped Enumerated Grouped OctetString OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info	OctetString OctetString - Enumerated Enumerated Grouped OctetString - Enumerated OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number	OctetString OctetString - Enumerated Enumerated Grouped OctetString Enumerated OctetString Grouped Enumerated Grouped OctetString OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info	OctetString OctetString - Enumerated Enumerated Grouped OctetString - Enumerated OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number	OctetString OctetString - Enumerated Enumerated Grouped OctetString - Enumerated OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped OctetString OctetString OctetString OctetString Grouped OctetString OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException	OctetString OctetString - Enumerated Enumerated Grouped OctetString - Enumerated OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped OctetString OctetString Grouped OctetString OctetString OctetString Grouped OctetString
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1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException 1476 SS-Code 1477 SS-Status 1478 Notification-To-UE-User	OctetString OctetString - Enumerated Enumerated Grouped OctetString - Enumerated OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString OctetString Grouped OctetString Grouped OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 ICS-Info 1474 GMLC-Number 1475 ICS-PrivacyException 1476 SS-Code 1477 SS-Status 1478 Notification-To-UE-User	OctetString OctetString - Enumerated Enumerated Grouped OctetString - Enumerated OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException 1476 SS-Code 1477 SS-Status 1478 Notification-To-UE-User 1479 External-Client 1480 Client-Identity	OctetString OctetString - Enumerated Enumerated Grouped OctetString - Enumerated OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString Enumerated Grouped OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException 1476 SS-Code 1477 SS-Status 1478 Notification-To-UE-User 1479 External-Client 1480 Client-Identity 1481 GMLC-Restriction	OctetString OctetString - Enumerated Enumerated Grouped OctetString - Enumerated OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString OctetString OctetString Enumerated Grouped OctetString
1452 Trace-Collection-Entity 1453 Kc 1454 SRES 1455 Reserved 1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException 1476 SS-Code 1477 SS-Status 1478 Notification-To-UE-User 1479 External-Client 1480 Client-Identity	OctetString OctetString - Enumerated Enumerated Grouped OctetString - Enumerated OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString Enumerated Grouped OctetString

1484 ServiceTypeIdentity	Unsigned32	
1485 MO-LR		
	Grouped	
1486 Teleservice-List	Grouped	
1487 TS-Code	Enumerated	
1488 Call-Barring-Info	Grouped	
1489 SGSN-Number	OctetString	
1490 IDR-Flags	Unsigned32	
1491 ICS-Indicator	Enumerated	
1492 IMS-Voice-Over-PS-Sessions-Supported	Enumerated	
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated	
1494 Last-UE-Activity-Time	Time	
1495 EPS-User-State	Grouped	
1496 EPS-Location-Information	Grouped	
1497 MME-User-State	Grouped	
1498 SGSN-User-State	Grouped	
1499 User-State	Enumerated	
4500 Nov. 00DD Hoor Deta	0	
1500 Non-3GPP-User-Data	Grouped	
1501 Non-3GPP-IP-Access	Enumerated	
1502 Non-3GPP-IP-Access-APN	Enumerated	
1503 AN-Trusted	Enumerated	
1504 ANID	UTF8String	
1505 Trace-Info	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	-	
1516 Full-Network-Name	OctetString	
1517 Short-Network-Name	OctetString	
1518 AAA-Failure-Indication	Unsigned32	29.273 [20]
1519 Transport-Access-Type	Enumerated	
1520 DER-Flags	Unsigned32	
1521 DEA-Flags	Unsigned32	
1522 RAR-Flags	Unsigned32	
1523 DER-S6b-Flags	Unsigned32	
	Ü	
1524 SSID	UTF8String	
1525 HESSID	UTF8String	
1526 Access-Network-Info	Grouped	
1527 TWAN-Connection-Mode	Unsigned32	
1528 TWAN-Connectivity-Parameters	Grouped	
1529 Connectivity-Flags	Unsigned32	
1530 TWAN-PCO	OctetString	
1531 TWAG-CP-Address	Address	
1532 TWAG-UP-Address	UTF8String	
1533 TWAN-S2a-Failure-Cause	Unsigned32	
1534 SM-Back-Off-Timer	Unsigned32	
1535 WLCP-Key	OctetString	
318 3GPP-AAA-Server-Name	DiameterIdentity	
Note 1: The AVP codes from 1536 to 1599 are reserved for TS 29.273	Diameteridentity	
	TS 20 224 and is now defi	nod in 2CDD TS
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP	10 23.204 and is now den	1150 111 3057 13
29.273 from Rel-12.	0	
1600 MME-Location-Information	Grouped	
1601 SGSN-Location-Information	Grouped	
1602 E-UTRAN-Cell-Global-Identity	OctetString	
1603 Tracking-Area-Identity	OctetString	29.272 [21]
1604 Cell-Global-Identity	OctetString	29.272 [21]
		29.272 [21]
1604 Cell-Global-Identity 1605 Routing-Area-Identity	OctetString OctetString	29.272 [21]
1604 Cell-Global-Identity	OctetString	29.272 [21]

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	
1629 Event-ThresholdRSRP	Unsigned32	
1630 Event-ThresholdRSRQ	Unsigned32	
1631 Logging-Interval	Enumerated	
1632 Logging-Duration	Enumerated	
1633 Relay-Node-Indicator	Enumerated	
1634 MDT-User-Consent		
	Enumerated	
1635 PUR-Flags	Unsigned32	
1636 Subscribed-VSRVCC	Enumerated	
1637 Equivalent-PLMN-List	Grouped	
1638 CLR-Flags	Unsigned32	
1639 UVR-Flags	Unsigned32	
1640 UVA-Flags	Unsigned32	
1641 VPLMN-CSG-Subscription-Data	Grouped	
1642 Time-Zone	UTF8String	
1643 A-MSISDN	OctetString	
1644 Reserved	-	
1645 MME-Number-for-MT-SMS	OctetString	
1646 Reserved	-	
1647 Reserved	_	
1648 SMS-Register-Request	Enumerated	
1649 Local-Time-Zone	Grouped	
1650 Daylight-Saving-Time	Enumerated	
1651 GMLC-Info	Grouped	
1652 GMLC-Name	DiameterIdentity	
1653 GMLC-Realm	DiameterIdentity	
1654 Subscription-Data-Flags	Unsigned32	
1655 Measurement-Period-LTE	Enumerated	
1656 Measurement-Period-UMTS	Enumerated	
1657 Collection-Period-RRM-LTE	Enumerated	
1658 Collection-Period-RRM-UMTS	Enumerated	
1659 Positioning-Method	OctetString	
1660 Measurement-Quantity	OctetString	
1661 Event-Threshold-Event-1F	Integer32	
1662 Event-Threshold-Event-1I	Integer32	
1663 Restoration-Priority	Unsigned32	
1664 SGs-MME-Identity	UTF8String	
1665 SIPTO-Local-Network-Permission	Unsigned32	
1666 Coupled-Node-Diameter-ID	DiameterIdentity	
1667 WLAN-offloadability	Grouped	
1668 WLAN-offloadability-EUTRAN	Unsigned32	
1669 WLAN-offloadability-UTRAN	Unsigned32	
1670 Reset-ID	OctetString	
1671 MDT-Allowed-PLMN-Id	OctetString	
Note: The AVP codes from 1672 to 1699 are reserved for TS 2	9.212.	

SMS-Information	Grouped	
Data-Coding-Scheme	Integer32	
Destination-Interface	Grouped	
Interface-Id	UTF8String	
Interface-Port	UTF8String	
Interface-Text	UTF8String	
Interface-Type	Enumerated	
SM-Message-Type	Enumerated	
Originating-SCCP-Address	Address	
Originator-Interface	Grouped	
Recipient-SCCP-Address	Address	
 Reply-Path-Requested	Enumerated	
SM-Discharge-Time	Time	
SM-Protocol-ID	OctetString	
SM-Status	OctetString	
 SM-User-Data-Header	OctetString	
SMS-Node	Enumerated	
 SMSC-Address	Address	
Client-Address	Address	
Number-of-Messages-Sent	Unsigned32	
Low-Balance-Indication	Enumerated	
Remaining-Balance	Grouped	
Refund-Information	OctetString	
Carrier-Select-Routing-Information	UTF8String	
Number-Portability-Routing-Information	UTF8String Enumerated	
PoC-Event-Type		
Recipient-Info	Grouped	
Originator-Received-Address Recipient-Received-Address	Grouped	
	Grouped	
SM-Service-Type	Enumerated	
MMTel-Information MMTel-Sservice-Type	Grouped	
Service-Mode	Unsigned32	22 200 [5]
Subscriber-Role	Unsigned32 Enumerated	32.299 [5]
 Number-Of-Diversions	Unsigned32	
Associated-Party-Address	UTF8String	
SDP-Type	Enumerated	
Change-Condition	Integer32	
Change-Condition Change-Time	Time	
Diagnostics	Integer32	
Service-Data-Container	Grouped	
Start-Time	Time	
 Stop-Time	Time	
Time-First-Usage	Time	
Time-Last-Usage	Time	
Time-Usage	Unsigned32	
Traffic-Data-Volumes	Grouped	
Serving-Node-Type	Enumerated	
Supplementary-Service	Grouped	
Participant-Action-Type	Enumerated	
PDN-Connection-Charging-ID	Unsigned32	
Dynamic-Address-Flag	Enumerated	
Accumulated-Cost	Grouped	
AoC-Cost-Information	Grouped	
AoC-Information	Grouped	
AoC-Request-Type	Enumerated	
Current-Tariff	Grouped	
Next-Tariff	Grouped	
Rate-Element	Grouped	
Scale-Factor	Grouped	
Tariff-Information	Grouped	
Unit-Cost	Grouped	
 Incremental-Cost	Grouped	
Local-Sequence-Number	Unsigned32	
Node-Id	UTF8String	
	<u> </u>	

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2065 SGW-Change	Enumerated	
2066 Charging-Characteristic-Selection-Mode	Enumerated	
2067 SGW-Address	Address	
2068 Dynamic-Address-Flag-Extension	Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.		
2100 reserved	-	
2101 Application-Server-ID	UTF8String	
2102 Application-Service-Type	Enumerated	
	Unsigned32	
2103 Application-Session-ID		
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	
	Grouped	
2201 Subsession-Enforcement-Info		
2202 Subsession-Id	Unsigned32	
2203 Subsession-Operation	Enumerated	
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.		
2300 reserved	_	
2301 SIP-Request-Timestamp-Fraction	Unsigned32	
2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2303 Online-Charging-Flag	Enumerated	
2304 CUG-Information	OctetString	
2305 Real-Time-Tariff-Information	Grouped	
2306 Tariff-XML	UTF8String	
2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
2309 Account-Expiration	Time	
2310 AoC-Format	Enumerated	
2311 AoC-Service	Enumerated	
		32.299 [5]
2312 AoC-Service-Obligatory-Type	Grouped	
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	-	
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator	Enumerated	
2323 MBMS-Charged-Party	Enumerated	
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.		
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	29.173 [25]
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets	Unsigned32	

2405 GMLC-Address	Address	
2406 Additional-Serving-Node	Grouped	
2407 PPR-Address	Address	
2408 MME-Realm	DiameterIdentity	
2409 SGSN-Name	DiameterIdentity	
2410 SGSN-Realm	DiameterIdentity	
2411 RIA-Flags	Unsigned32	
Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173.	Unaighted52	
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 OctetString	
2516 EUTRAN-Positioning-Data 2517 ECGI	OctetString OctetString	
	OctetString	
2518 Location-Event	Enumerated	
2519 Pseudonym-Indicator	Enumerated	
2520 LCS-Service-Type-ID	Unsigned32	
2521 LCS-Privacy-Check-Non-Session	Grouped	
2522 LCS-Privacy-Check-Session	Grouped	
2523 LCS-QoS-Class	Enumerated	
2524 GERAN-Positioning-Info	Grouped	
2525 GERAN-Positioning-Data	OctetString	
2526 GERAN-GANSS-Positioning-Data	OctetString	
2527 UTRAN-Positioning-Info	Grouped	29.172 [24]
2528 UTRAN-Positioning-Data	OctetString	
2529 UTRAN-GANSS-Positioning-Data	OctetString	
2530 LRR-Flags	Unsigned32	
2531 LCS-Reference-Number	OctetString	
2532 Deferred-Location-Type	Unsigned32	
2533 Area-Event-Info	Grouped	
2534 Area-Definition	Grouped	
2535 Area	Grouped	
2536 Area-Type	Unsigned32	
2537 Area-Identification	Grouped	
2538 Occurrence-Info	Enumerated	
2539 Interval-Time	Unsigned32	
2540 Periodic-LDR-Information	Grouped	
2541 Reporting-Amount	Unsigned32	
2542 Reporting-Interval	Unsigned32	
2543 Reporting-PLMN-List	Grouped	
2544 PLMN-ID-List	Grouped	
2545 PLR-Flags	Unsigned32	
2546 PLA-Flags	Unsigned32	
2547 Deferred-MT-LR-Data	Grouped	
2548 Termination-Cause	Unsigned32	
2549 LRA-Flags	Unsigned32	
2550 Periodic-Location-Support-Indicator	Enumerated	
2551 Prioritized-List-Indicator	Enumerated	
2552 ESMLC-Cell-Info	Grouped	
2553 Cell-Portion-ID	Unsigned32	
2554 1xRTT-RCID	OctetString	
Note: The AVP codes from 2555 to 2599 are reserved for TS 29.172.		
2600 reserved	-	32.299 [5]
		

2601 IMS-Application-Reference-Identifier	UTF8String	
2602 Low-Priority-Indicator	Enumerated	
2603 IP-Realm-Default-Indicator	Enumerated	
2604 Local-GW-Inserted-Indicator	Enumerated	
2605 Transcoder-Inserted-Indicator	Enumerated	
2606 PDP-Address-Prefix-Length	Unsigned32	_
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299.	Chaighteacz	
2700 Reserved	_	
2701 Transit-IOI-List	UTF8String	
2702 Status-AS-Code	Enumerated	
2703 NNI-Information	Grouped	
2704 NNI-Type	Enumerated	
2705 Neighbour-Node-Address	Address	
2706 Relationship-Mode	Enumerated	
2707 Session-Direction	Enumerated	_
2707 Gession-Direction	UTF8String	
2709 Access-Transfer-Information	Grouped	32.299 [5]
2710 Access-Transfer-Type	Enumerated	
2711 Related-IMS-Charging-Identifier	UTF8String	
2711 Related-IMS-Charging-Identifier-Node	Address	+
2712 Related-IMS-Charging-Identifier-Node	UTF8String	+
2714 TWAN-User-Location-Info	Grouped	+
2714 TWAN-OSEI-LOCALION-IIIIO 2715 Reserved	Groupeu	+
2716 BSSID	- UTF8String	+
2717 TAD-Identifier	Enumerated	+
Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299.	Enumerateu	
2800 Reserved	_	
2801 ADC-Revalidation-Time	Time	
2802 TDF-Application-Instance-Identifier	OctetString	
2803 HeNB-BBF-FQDN	UTF8String	
2804 HeNB-Local-IP-Address	Address	
2805 UE-Local-IP-Address	Address	_
2806 UDP-Source-Port	Unsigned32	
2807 CS-Service-Qos-Request-Identifier	OctetString	
2808 CS-Service-QoS-Request-Operation	Enumerated	
2809 Mute-Notification	Enumerated	
	Time	_
2810 Monitoring-Time 2811 AN-GW-Status		_
2812 User-Location-Info-Time	Enumerated	
2813 CS-Service-Resource-Report	Grouped	
2814 CS-Service-Resource-Failure-Cause	Time Enumerated	29.212 [19]
2815 CS-Service-Resource-Pallule-Cause		
	Enumerated	_
2816 Default-QoS-Information	Grouped	
2817 Default-QoS-Name	UTF8String	4
2818 Conditional-APN-Aggregate-Max-Bitrate	Grouped	4
2819 RAN-NAS-Release-Cause	OctetString	_
2820 Presence-Reporting-Area-Elements-List	OctetString OctotString	4
2821 Presence-Reporting-Area-Identifier	OctetString	_
2822 Presence-Reporting-Area-Information	Grouped	_
2823 Presence-Reporting-Area-Status	Unsigned32	_
2824 NetLoc-Access-Support	Unsigned32	4
2825 Fixed-User-Location-Info	Grouped	4
2826 PCSCF-Restoration-Indication	Unsigned32	4
2827 IP-CAN-Session-Charging-Scope	Enumerated	
Note: The AVP codes from 2828 to 2899 are reserved for TS 29.212.	1	
2900 reserved		_
2901 Policy-Counter-Identifier	Grouped	00 040 (00)
2902 Policy-Counter-Status	UTF8String	29.219 [26]
2903 Policy-Counter-Status-Report	Grouped	4
2904 SL-Request-Type	Enumerated	
Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219.	<u> </u>	
3000 reserved	-	
3001 Device-Action	Grouped	29.368 [27]
3002 Device-Notification	Grouped	20.000 [27]
3003 Trigger-Data	Grouped	
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·

3004 Payload	OctetString	
3005 Action-Type	Enumerated	
3006 Priority-Indication	Enumerated	
3007 Reference-Number		
3008 Request-Status	Unsigned32 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 i		
3100 IP-SM-GW-Number	OctetString	
3101 IP-SM-GW-Name	Diameter Identity	
3102 User-Identifier	Grouped	
3103 Service-ID	Enumerated	
3104 SCS-Identity	OctetString	
3105 Service-Parameters	Grouped	
3106 T4-Parameters	Grouped	29.336 [28]
3107 Service-Data	Grouped	
3108 T4-Data	Grouped	
3109 HSS-Cause	Unsigned32	
3110 SIR-Flags	Unsigned32	
3111 External-Identifier	UTF8String	
3112 IP-SM-GW-Realm	DiameterIdentity	
Note: The AVP codes from 3113 to 3199 are i		
3200 SM-Delivery-Outcome-T4	Enumerated	
3201 Absent-Subscriber-Diagnostic-T4	Enumerated	00 007 [00]
3202 Trigger-Action	Unsigned32	29.337 [29]
3203 MTC-Error-Diagnostic	Unsigned32	
Note: The AVP codes from 3204 to 3299 are i		
3300 SC-Address	OctetString	
3301 SM-RP-UI	OctetString	
3302 TFR-Flags	Unsigned32	
3303 SM-Delivery- Failure-Cause	Grouped	
3304 SM-Enumerated-Delivery-Failure-Caus		
3305 SM-Diagnostic-Info	OctetString	
3306 SM-Delivery-Timer	Unsigned32	
3307 SM-Delivery-Start-Time	Time	
3308 SM-RP-MTI	Enumerated	
3309 SM-RP-SMEA	OctetString	
3310 SRR-Flags	Unsigned32	
3311 SM-Delivery-Not-Intended	Enumerated	
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3312 MWD-Status	Unsigned32	
3313 MME-Absent-User-Subscriber-Diagnos		1001 000 00
3314 MSC-Absent-User-Subscriber-Diagnos		29.338 [30]
3315 SGSN-Absent-User-Subscriber-Diagno		
3316 SM-Delivery-Outcome	Grouped	
3317 MME-SM-Delivery-Outcome	Grouped	
3318 MSC-SM-Delivery-Outcome	Grouped	
3319 SGSN-SM-Delivery-Outcome	Grouped	
3320 IP-SM-GW-SM-Delivery-Outcome	Grouped	
3321 SM-Delivery-Cause	Enumerated	
3322 Absent-User-Diagnostic-SM	Unsigned32	
3323 RDR-Flags	Unsigned32	
3324 SMSMI-Correlation-ID	Unsigned32	
3325 HSS-ID	UTF8String	
3326 Originating-SIP-URI	UTF8String	
3327 Destination-SIP-URI	UTF8String	
3328 OFR-Flags	Unsigned32	
Note: The AVP codes from 3329 to 3399 are i		
3400 Reserved	-	
3401 Reason-Header	UTF8String	
3402 Instance-Id	UTF8String	
3403 Route-Header-Received	UTF8String	32.299 [5]
3404 Route-Header-Transmitted	UTF8String	
3405 SM-Device-Trigger-Information	Grouped	
10-100 10111-Device-Higger-Hillolliation	Gioupeu	

	The AVP codes from 3469 to 3499 are reserved for TS 32.299. BMSC-Address	Address	29.468 [3
	The AVD and a from 2400 to 2400 ore recented for TC 22 200		
	Transmitter-Info	Grouped	
	Time-First-Transmission	Time	
	Time-First-Reception	Time	
	Radio-Resources-Indicator	Integer32	
	Radio-Parameter-Set-Values	OctetString	
	Radio-Parameter-Set-Info	Grouped	
	Radio-Frequency	OctetString	
	ProSe-Direct-Communication-Reception-Data-Container	Grouped	
	Location-Info	Grouped	
	Coverage-Info	Grouped	
	ProSe-Function-PLMN-Identifier Application-Specific-Data	OctetString	
	Proximity-Cancellation-Timestamp	Time UTF8String	
	Proximity-Alert-Timestamp	Time	
	Proximity-Alert-Indication	Enumerated	
	ProSe-UE-ID	OctetString	
	ProSe-Source-IP-Address	Address	
	ProSe-Role-Of-UE	Enumerated	
	ProSe-Request-Timestamp	Time	
	ProSe-Reason-For-Cancellation	Enumerated	
3448	ProSe-Range-Class	Enumerated	
	ProSe-Information	Grouped	
	ProSe-Group-IP-Multicast-Addresses	Address	
	ProSe-Functionality	Enumerated	
	ProSe-Function-IP-Address	Address	
	ProSe-Event-Type	Enumerated	
	ProSe-Direct-Discovery-Model	Enumerated	
	ProSe-Direct-Communication-Transmission-Data-Container	Grouped	
	ProSe-3rd-Party-Application-ID	UTF8String	
	Usage-Information-Report-Sequence-Number	Integer32	
	Role-Of-ProSe-Function	Enumerated	
	Requestor-PLMN-Identifier	UTF8String	
	Requested-PLMN-Identifier	UTF8String	
	ProSe-PC3-EPC-Control-Protocol-Cause	Integer32	
	ProSe-PC3-Control-Protocol-Cause	Integer32	
	Monitoring-UE-VPLMN-Identifier	UTF8String	
	Monitoring-UE-Identifier	UTF8String	
	Monitoring-UE-HPLMN-Identifier	UTF8String	
	Monitored-PLMN-Identifier	UTF8String	
	Layer-2-Group-ID	OctetString	
	Coverage-Status	Enumerated	
	Announcing-UE-VPLMN-Identifier	UTF8String	
	Announcing-UE-HPLMN-Identifier	UTF8String	
	EPDG-Address	Address	
	ISUP-Cause-Value	Unsigned32	
	ISUP-Cause-Location	Unsigned32	
3422	ISUP-Cause-Diagnostics	OctetString	
	VLR-Number CN-Operator-Selection-Entity	OctetString Enumerated	
	Start-of-Charging	Time	
	Network-Call-Reference-Number	OctetString	
	MSC-Address	OctetString	
	ISUP-Release-Cause	Unsigned32	
	Forwarding-Pending	Enumerated	
3414	ISUP-Location-Number	OctetString	
	Teleservice	OctetString	
	Bearer-Capability	OctetString	
	Basic-Service-Code	Grouped	
	VCS-Information	Grouped	
	SMS-Result	Unsigned32	
	SM-Device-Trigger-Indicator SM-Sequence-Number	Enumerated Unsigned32	
3 4 07			

3501 BMSC-Port			T	
S003 MBMS-Bearer-Request Grouped				
S004 MBMS-Beater-Request				
MBMS-Bearer Response Grouped Unsigned32				
MBMS-Bearer-Result				
S007 MEMS-Start-Time				
S008 Radio-Frequency				
TMGI-Allocation-Reguest Grouped				
Misch Misc				
Signar				
STORE TMGI-Deallocation-Request Grouped				
Sample	3511 TMGI-AI	location-Result	Unsigned32	
3514 TMGI-Deallocation-Result			Grouped	
Sin	3513 TMGI-D	eallocation-Response	Grouped	
Sinistrong Unsigned32	3514 TMGI-D	eallocation-Result	Unsigned32	
M82U-Security	3515 TMGI-E:	rpiry Prince Teacher T	Grouped	
Note: The AVP codes from 3518 to 3599 are reserved for TS 29.468.	3516 TMGI-N	umber	Unsigned32	
1960 1974 1975	3517 MB2U-S	ecurity	Unsigned32	
29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.344 [33]	Note: The AVP	codes from 3518 to 3599 are reserved for TS 29.468.	-	
29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.343 [32] 29.344 [33]	3601 Origin-A	op-Layer-User-Id	UTF8String	
ProSe-Function-ID				20 242 [20]
Note: The AVP codes from 3605 to 3699 are reserved for TS 29.343. ProSe-Subscription-Data Grouped				29.343 [32]
Note: The AVP codes from 3605 to 3699 are reserved for TS 29.343.			U	
ProSe-Subscription-Data				
ProSe-Permission			Grouped	
ProSe-Allowed-PLMN		,		
ProSe-Direct-Allowed				
29.344 33 3705 URR-Flags Unsigned32 29.344 33 3707 ProSe-Initial-Location-Information Grouped Unsigned32 Unsigned33 Unsign				
Name				29.344 [33]
ProSe-Initial-Location-Information				
Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344.				
Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344. 3800 Reserved				
3800 Reserved 3801 App-Layer-User-Id UTF8String 3802 Assistance-Info Grouped 3803 Assistance-Info-Validity-Timer Unsigned32 Unsigned33				
3801 App-Layer-User-Id				
3802 Assistance-info Grouped 3803 Assistance-Info-Validity-Timer Unsigned32 3804 Discovery-Type Unsigned32 3805 Filter-Id OctetString 3806 MAC-Address UTF8String 3807 Match-Report Grouped 3808 Operating-Channel Unsigned32 3809 P2P-Features Unsigned32 3810 ProSe-App-Code UTF8String 3811 ProSe-App-Id UTF8String 3812 ProSe-App-Id UTF8String 3813 ProSe-App-Id UTF8String 3814 ProSe-App-Id UTF8String 3815 ProSe-Validity-Timer Grouped 3816 Requesting-EPUID UTF8String 3817 Targeted-EPUID UTF8String 3818 Time-Window Unsigned32 3819 WIEN-P2P-Assistance-Info Grouped 3820 WLAN-Assistance-Info Grouped 3821 WLAN-Link-Layer-Id OctetString 3822 WLAN-Link-Layer-Id OctetString 3823 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 3830 Location-Peport-Interval-Time Unsigned32 3831 Total-Number-Of-Reports Unsigned32 3832 Total-Number-Of-Reports Unsigned32 3834 Total-Number-Of-Reports Unsigned32 3835 Total-Number-Of-Reports Unsigned32 3836			LITESString	
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3804 Discovery-Type Unsigned32				
Section				
3806 MAC-Address UTF8String Grouped 3807 Match-Report Grouped 3808 Operating-Channel Unsigned32 3810 ProSe-App-Code UTF8String 3811 ProSe-App-Id UTF8String 3812 ProSe-App-Id UTF8String 3813 ProSe-App-Mask UTF8String 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-Link-Layer-Id-List Grouped 3821 WLAN-Link-Layer-Id-List Grouped 3822 WLAN-Link-Layer-Id-List Grouped 3823 Location-Update-Event-Type Unsigned32 3826 Change-Of-Area-Type Grouped 3827 Report-Cardinality Enumerated 3828 Minimum-Interval-Time Unsigned32 3830 Location-Report-Interval-Time Unsigned32 3831 Total-Number-Of-Reports Unsigned32		у-туре		
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3813ProSe-Discovery-FilterGrouped3814PRR-FlagsUnsigned323815ProSe-Validity-TimerUnsigned323816Requesting-EPUIDUTF8String3817Targeted-EPUIDUTF8String3818Time-WindowUnsigned323819WiFi-P2P-Assistance-InfoGrouped3820WLAN-Assistance-InfoGrouped3821WLAN-Link-Layer-IdOctetString3822WLAN-Link-Layer-Id-ListGrouped3823Location-Update-TriggerGrouped3824Location-Update-Event-TypeUnsigned323825Change-Of-Area-TypeGrouped3826Location-Update-Event-TriggerUnsigned323827Report-CardinalityEnumerated3828Minimum-Interval-TimeUnsigned323829Periodic-Location-TypeGrouped3830Location-Report-Interval-TimeUnsigned323831Total-Number-Of-ReportsUnsigned32				
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3818Time-WindowUnsigned323819WiFi-P2P-Assistance-InfoGrouped3820WLAN-Assistance-InfoGrouped3821WLAN-Link-Layer-IdOctetString3822WLAN-Link-Layer-Id-ListGrouped3823Location-Update-TriggerGrouped3824Location-Update-Event-TypeUnsigned323825Change-Of-Area-TypeGrouped3826Location-Update-Event-TriggerUnsigned323827Report-CardinalityEnumerated3828Minimum-Interval-TimeUnsigned323829Periodic-Location-TypeGrouped3830Location-Report-Interval-TimeUnsigned323831Total-Number-Of-ReportsUnsigned32				∠9.345 [34]
3819WiFi-P2P-Assistance-InfoGrouped3820WLAN-Assistance-InfoGrouped3821WLAN-Link-Layer-IdOctetString3822WLAN-Link-Layer-Id-ListGrouped3823Location-Update-TriggerGrouped3824Location-Update-Event-TypeUnsigned323825Change-Of-Area-TypeGrouped3826Location-Update-Event-TriggerUnsigned323827Report-CardinalityEnumerated3828Minimum-Interval-TimeUnsigned323829Periodic-Location-TypeGrouped3830Location-Report-Interval-TimeUnsigned323831Total-Number-Of-ReportsUnsigned32				
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3824Location-Update-Event-TypeUnsigned323825Change-Of-Area-TypeGrouped3826Location-Update-Event-TriggerUnsigned323827Report-CardinalityEnumerated3828Minimum-Interval-TimeUnsigned323829Periodic-Location-TypeGrouped3830Location-Report-Interval-TimeUnsigned323831Total-Number-Of-ReportsUnsigned32				
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3829Periodic-Location-TypeGrouped3830Location-Report-Interval-TimeUnsigned323831Total-Number-Of-ReportsUnsigned32				
3830Location-Report-Interval-TimeUnsigned323831Total-Number-Of-ReportsUnsigned32				
3831 Total-Number-Of-Reports Unsigned32				
3832 Validity-Time-Announce Unsigned32				
	3832 Validity-	Fime-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 Reserved	-
3840 Reserved	-
3841 Reserved	-
3842 Reserved	-
3843 Reserved	-
3844 Reserved	-
3845 Reserved	-
3846 Reserved	-
3847 Reserved	-
3848 Reserved	-
3849 Reserved	-
3850 Reserved	-
3851 Reserved	-
3852 PMR-Flags	Unsigned32
3853 ProSe-Application-Metadata	UTF8String
3854 Discovery-Auth-Request	Grouped
3855 Discovery-Auth-Response	Grouped
3856 Match-Request	Grouped
3857 Match-Report-Info	Grouped
Note: The AVP codes from 3858 to 3899 are reserved for TS 29.3	345.

8 Experimental result codes

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

8.1 3GPP specific result codes

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

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

8.1.1 Informational

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

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

8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

Experimental	Result text	Specified in the TS
Result Code		
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 Experim	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.	
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]
Note: The 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.	
4141	DIAMETER_PCC_BEARER_EVENT	
4142	DIAMETER_BEARER_EVENT	20 212 [10]
4143	DIAMETER_AN_GW_FAILED	29.212 [19]
4144	DIAMETER_PENDING_TRANSACTION	
Note: The Experime	ntal Result Codes from 4145 to 4160 are reserved for the TS 29.212	
		32.299 [5]
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.	
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	20 272 [24]
4182	DIAMETER_ERROR_CAMEL_SUBSCRIPTION_PRESENT	29.272 [21]
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.	
4201	DIAMETER_ERROR_ABSENT_USER	29.173 [25]
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.	
4221	DIAMETER_ERROR_UNREACHABLE_USER	
4222	DIAMETER_ERROR_SUSPENDED_USER	
4223	DIAMETER_ERROR_DETACHED_USER	20 472 [24]
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]
4225	DIAMETER_ERROR_POSITIONING_FAILED	
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT	
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.	
4241	DIAMETER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	29.219 [26]
Note: The Experime	ntal Result Codes from 4242 to 4260 are reserved for the TS 29.219.	
		29.214 [18]
Note: The Experime	ntal Result Codes from 4261 to 4280 are reserved for the TS 29.214.	

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED	
5012	DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUPP	
	ORTED	
Note: The Expe	rimental Result Codes from 5013 to 5020 are reserved for the TS	32.299 [5]
Note: The Expe	rimental Result Codes from 5021 to 5040 are reserved for the TS	
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	J UL. 200.
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5042	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC	
	RIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	
Note: The Expe	rimental Result Codes from 5046 to 5060 are reserved for the TS	S 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	101 000 00
5064	DUPLICATED_AF_SESSION	29.209 [8],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.211 [17] ,
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	29.214 [18]
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
5068	TEMPORARY_NETWORK_FAILURE	
	rimental Result Codes from 5069 to 5080 are reserved for TS 29 TS 29.214.).209, TS 29.211
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER ERROR USER DATA CANNOT BE MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	
5105	DIAMETER_ERROR_TRANSPARENT_DATA	29.329 [4]
- 100	OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	rimental Result Codes from 5109 to 5119 are reserved for the TS	S 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
	rimental 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	29.212 [19]
F4.45	DIAMETER OOG RIJLE EVENT	
5145	DIAMETER_QOS_RULE_EVENT	
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
5148	DIAMETER_ADC_RULE_EVENT	2.00.042
	rimental Result Codes from 5149 to 5159 are reserved for the TS	
5401	DIAMETER_ERROR_IMPI_UNKNOWN	29.109 [7

5402	DIAMETER_ERROR_NOT_AUTHORIZED	
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	
Note: The Expe	erimental Result Codes from 5404 to 5419 are reserved for the TS	S 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	20.272 [21]
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	
	erimental Result Codes from 5424 to 5449 are reserved for the TS	S 20 272
5450	DIAMETER ERROR USER NO NON 3GPP SUBSCRIPTI	3 29.212.
5450		
5454	ON DIAMETER ERROR HOER NO ARM SURGORISTION	29.273 [20]
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	• •
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	
	erimental Result Codes from 5453 to 5469 are reserved for the TS	S 29.273.
5470	DIAMETER_ERROR _SUBSESSION	
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME	29.215 [22]
	NT	
Note: The Expe	erimental Result Codes from 5472 to 5489 are reserved for the TS	S 29.215.
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET	20 472 [25]
	WORK	29.173 [25]
Note: The Expe	erimental Result Codes from 5491 to 5509 are reserved for the T	S 29.173.
5510	DIAMETER ERROR UNAUTHORIZED REQUESTING ENTI	-
	TY	29.336 [28]
5511	DIAMETER ERROR UNAUTHORIZED SERVICE	_0.000 [20]
	erimental Result Codes from 5512 to 5529 are reserved for the T	S 20 336
	DIAMETER_ERROR_INVALID_SME_ADDRESS	J 20.000.
5530 5531	DIAMETER_ERROR_INVALID_SME_ADDRESS 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	erimental Result Codes from 5536 to 5549 are reserved for the TS	S 29.337.
5550	DIAMETER_ERROR_ABSENT_USER	
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5553	DIAMETER_ERROR_ILLEGAL_USER	
5554	DIAMETER ERROR ILLEGAL EQUIPMENT	29.338 [30]
5555	DIAMETER ERROR SM DELIVERY FAILURE	20.000 [00]
5556	DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED	
5557	DIAMETER ERROR SERVICE BARRED	
5558	DIAMETER_ERROR_MWD_LIST_FULL	2 00 000
	erimental Result Codes from 5559 to 5569 are reserved for the T	
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
	Experimental Result Codes from 5571 to 5589 are reserved for t	he TS 29.219.
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	
5592	DIAMETER_ERROR_PFID_UNKNOWN	
5593	DIAMETER_ERROR_APP_REGISTER_REJECT	29.343 [32]
5594	DIAMETER ERROR PROSE MAP REQUEST DISALLOWE	' '
	D	
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	
	erimental Result Codes from 5596 to 5609 are reserved for the T	S 29 343
5610	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION	5 <u>-</u> 0.0 _f 0.
5611	DIAMETER_ERROR_DINNIOWN_FROSE_SOBSCRIPTION DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]
	DIAMETER_ERROR_PROSE_NOT_ALLOWED DIAMETER_ERROR_UE_LOCATION_UNKNOWN	23.044 [33]
5612		C 00 044
	erimental Result Codes from 5613 to 5629 are reserved for the TS	S 29.344.
5630	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT	
	ER	
5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P	
	LMN	
5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE	
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	29.345 [34]
5634	DIAMETER_ERROR_PROXIMITY_REJECTED	[]
5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	
5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_	
3000	PLMN	
5637	DIAMETER_ERROR_PROXIMITY_CANCELLED	
J03/	DIAMETER_ERROR_FROAIIVIITY_CANCELLED	

5638	Reserved	
5639	Reserved	
5640	Reserved	
5641	DIAMETER_ERROR_INVALID_DISCOVERY_TYPE	
Note: The Expe	rimental Result Codes from 5642 to 5649 are reserved for the TS	S 29.345.

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

_	1				Change history	1	
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292			Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25	NP-040401			Correction of Charging application reference	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401			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	009	1	Addition of Gmb interface	6.1.0	6.2.0
2004-12	CN#26	NP-040600	010	2	Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces	6.1.0	6.2.0
2004-12	CN#26	NP-040579	011		Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579	012		Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047	040	1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039			Allocations for Gx interface	İ	
		NP-050039			Allocations for Gmb interface	İ	
	ľ	NP-050039			Allocations for MMS, MM10 Interface	1	
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.3.0	6.4.0
2000 00	01,120	CP-050196		1	Addition of Maximum-Number-Accesses AVP	0.0.0	0.1.0
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.4.0	6.5.0
_000000	31,1123	CP-050310		<u> </u>	Addition of Pr reference point to TS 29.230	J 3.4.0	0.0.0
		CP-050310			Error code cleanup	┪	
	}	CP-050310			Addition of Rx ref. point and renaming of Experimental Result	┨	
		CP-030310	0036		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	0058		Addition of GBA-Type AVP	7.0.0	7.1.0
		CP-050612	0063		Additional Gmb AVP Allocation		
		CP-050612	0065		Reservation of AVP codes for 32.299		
		CP-050625			Management of Sh subscriptions		
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
		CP-060084			User-Data in the response to Sh-Subs-Notif	7.1.0	
	Í	CP-060084		1	New error indications for the Sh-Subs-Notif procedure	1	
2006-06	CT#32	CP-060302			S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417		3	New AVP Code	7.3.0	7.4.0
	000	CP-060417		_	Errors to be sent in response to Sh-Notif	1.1010	
	ŀ	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//04	CP-060562			Addition of Diameter Error Code for Emergency Purposes	17.4.0	7.0.0
		CP-060555			Allocation of new AVP codes for Gmb	1	
		CP-060555			AVP code allocations for Rf and Ro interfaces	1	
	ł	CP-060566			Allocation of Success Result Code Range for Gi Interface	1	
2007-03	CT#35	CP-000300			C3 requested addition of new AVP code values to 3GPP TS	7.5.0	7.6.0
2007-03	C1#35				29.230	7.5.0	7.6.0
		CP-070020			Allocation of new AVP code for DSAI-Tag AVP	Ţ	
		CP-070020			Allocation of Experimental-Result-Code AVP for Gi Interface		\bot
2007-06	CT#36	CP-070318			Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312			Experimental-Result-Codes for Gmb interface]	
		CP-070312			Correction of Diameter AVP code allocation	<u></u>	
2007-09	CT#37	CP-070527	0102		Application ID for Gx protocol	7.7.0	7.8.0
2007-12	CT#38	CP-070743	0104		AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
			0105		Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol		
2007-12	CT#38	CP-070755	0101	4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
	200	2. 370700	0103	Ė	AVP code reservation for 32.299 in Rel-8		
2008-03	CT#39	CP-080015			Correction of reference to TS 29.140	8.0.0	8.1.0
		CP-080019			AVP code reservation for TS 32.299 in Rel-8	1	
		CP-080019			Wildcarded Public User Identities	1	
		CP-080191		1	Correction on AVP code allocation reservation for TS 32.299 in		
		00.00000	0415		Rel-7	4	1
		CP-080204			Correction on AVP code allocation reservation for TS 32.299	ļ	
2000	CT#40	CP-080267	0117	1	A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-06							
2008-09	CT#41	CP-080456			Emergency Public User Identity Removal	8.2.0	8.3.0
		CP-080456 CP-080460 CP-080460	0121		Emergency Public User Identity Removal Support of "Loose-Route" indication from HSS STaMIP Application Id	8.2.0	8.3.0

	CT#41	CP-080463	0123		Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment)				
2008-09	CT#41	CP-080463	0124	 	New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0		
2008-12	CT#42	CP-080691		2	Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0		
2008-12	CT#42	CP-080691		1	Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0		
2009-03	CT#43	CP-090044		1	Update for ReadyForSM	8.4.0	8.5.0		
2009-03	CT#43	CP-090044		1	Handling LCS Subscription Data	8.4.0	8.5.0		
2009-03	CT#43	CP-090026		<u> </u>	Update for Restoration	8.4.0	8.5.0		
2009-03	CT#43	CP-090024		<u> </u>	Applds for Gxx and S9	8.4.0	8.5.0		
2009-03	CT#43	CP-090033			Appld and command code for Zpn	8.4.0	8.5.0		
2009-03	CT#43	CP-090024			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	0140	1	Location of Permanent Failure result code range for the S9 application	8.4.0	8.5.0		
2009-03	CT#43	CP-090024	0141		AVPs for TS 29.273	8.4.0	8.5.0		
2009-03	CT#43	CP-090024		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		
	0	CP-090299		<u> </u>	AVP code reservation for TS 32.299		0.0.0		
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"	₫			
			0146	<u> </u>	Removal of Requesting Node Type from AIR	7			
		CP-090299			S6b Application ID	7			
2009-09	CT#45	CP-090530			Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0		
		CP-090530			AVP code allocation for TS 29.212	1			
		CP-090531	0150		Update of the AVP type for the User-Id	1			
		CP-090531	0153		Trace Depth per session	7			
2009-09	CT#45	CP-090557	0148		AVP code range for charging	8.7.0	9.0.0		
2009-12	CT#46	CP-090800		1	ICS-Flag	9.0.0	9.1.0		
		CP-091032			From GMLC-Address to GMLC-Number				
			0160	L	Session-Priority AVP	_			
			0163	2	Introduction of SLh application related AVPs and Experimental				
			0466		Result codes	-			
		CP-090797	0166	1	Missing AVP error codes Introduction of SLg application related AVPs and Application	-			
		CF-090797	0107		Identifier				
2010-03	CT#47	CP-100031	0158	1	Wildcarded Public Identity	9.1.0	9.2.0		
		CP-100034			Correction on AVP code allocation reservation for TS 32.299 in				
					Rel-9				
		CP-100046		1	AVP code allocation for 29.172				
		CP-100036			GPL_U support in TS 29.109				
		CP-100046		ļ.,	Error codes in 29.172 for SLg				
		CP-100048		1	AVPs in 29.272 for TADS support	_			
		CP-100040		4	Error codes in 29.272 for Unknown MME EPS Subcsriber State and Location Information Request	4			
		CP-100236 CP-100033		4	One time notification AVP allocation	-			
		CP-100033			Addition of the LCS-QoS-Class attribute value	-	=	-	
		CP-100175			Introduction of the LCS-Capabilities-Sets AVP in SLh interface	-			
2010-06	CT#48			1					
		CP-100263	10100	1.1		9.2.0	9.3.0		
		CP-100263	0183		AVP Codes for PCC	9.2.0	9.3.0		
		CP-100263 CP-100287	0183	1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID	9.2.0	9.3.0		
		CP-100287 CP-100277	0183 0186 0190	1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol				
2010-09	CT#49	CP-100287	0183 0186 0190	1 1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh	9.2.0			
2010-09		CP-100287 CP-100277 CP-100463	0183 0186 0190 0197	1 1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces		9.3.0		
	CT#49	CP-100287 CP-100277 CP-100463	0183 0186 0190 0197 0196	1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC	9.3.0	9.4.0		
		CP-100287 CP-100277 CP-100463 CP-100464 CP-100465	0183 0186 0190 0197 0196 0193	1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator		9.4.0		
2010-09	CT#49	CP-100287 CP-100277 CP-100463 CP-100464 CP-100465 CP-100466	0183 0186 0190 0197 0196 0193 0198	1 1 2	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address	9.3.0			
2010-09	CT#49	CP-100287 CP-100277 CP-100463 CP-100464 CP-100465 CP-100466 CP-100466	0183 0186 0190 0197 0196 0193 0198 0199	1 1 2	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature	9.3.0	9.4.0		
2010-09	CT#49	CP-100287 CP-100277 CP-100463 CP-100464 CP-100465 CP-100466 CP-100699	0183 0186 0190 0197 0196 0193 0198 0199 0205	1 1 2	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address	9.3.0	9.4.0		
2010-09	CT#49	CP-100287 CP-100277 CP-100463 CP-100464 CP-100465 CP-100466 CP-100466	0183 0186 0190 0197 0196 0193 0198 0199 0205 0201	1 2 1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data	9.3.0	9.4.0		
2010-09	CT#49	CP-100287 CP-100277 CP-100463 CP-100465 CP-100466 CP-100466 CP-100699 CP-100687 CP-100683 CP-100688	0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206	1 2 1 1 1 1 1 1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS	9.3.0	9.4.0		
2010-09	CT#49 CT#49 CT#50	CP-100287 CP-100277 CP-100463 CP-100465 CP-100466 CP-100466 CP-100699 CP-100683 CP-100688 CP-100688 CP-100688	0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203	1 2 1 1 1 1 1 1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic	9.3.0	9.4.0		
2010-09	CT#49	CP-100287 CP-100277 CP-100463 CP-100465 CP-100466 CP-100466 CP-100689 CP-100683 CP-100688 CP-100688 CP-100688 CP-100684 CP-110051	0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212	1 2 1 1 1 1 1 1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction	9.3.0	9.4.0		
	CT#49 CT#49 CT#50	CP-100287 CP-100277 CP-100463 CP-100465 CP-100466 CP-100466 CP-100699 CP-100683 CP-100688 CP-100688 CP-100688	0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212	1 2 1 1 1 1 1 1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application	9.3.0	9.4.0		
2010-09	CT#49 CT#49 CT#50	CP-100287 CP-100277 CP-100463 CP-100465 CP-100466 CP-100669 CP-100687 CP-100688 CP-100688 CP-100688 CP-100688 CP-110054	0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212	1 2 1 1 1 1 1 1 1 1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs	9.3.0	9.4.0		
2010-09	CT#49 CT#49 CT#50	CP-100287 CP-100277 CP-100463 CP-100465 CP-100466 CP-100466 CP-100689 CP-100683 CP-100688 CP-100688 CP-100688 CP-100684 CP-110051	0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215	1 2 1 1 1 1 1 1 1 1 2	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs	9.3.0	9.4.0		
2010-09	CT#49 CT#49 CT#50	CP-100287 CP-100277 CP-100463 CP-100465 CP-100466 CP-100696 CP-100687 CP-100688 CP-100688 CP-100688 CP-100688 CP-110054 CP-110054	0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215	1 2 1 1 1 1 1 1 1 1 2 1 1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs	9.3.0	9.4.0		
2010-09 2010-12	CT#49 CT#49 CT#50 CT#51	CP-100287 CP-100277 CP-100463 CP-100464 CP-100466 CP-100466 CP-100687 CP-100683 CP-100688 CP-10054 CP-110051 CP-110084 CP-110087 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084	0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0231	1 2 1 1 1 1 1 1 1 1 2 1 1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup	9.3.0	9.4.0		
2010-09 2010-12	CT#49 CT#49 CT#50 CT#51	CP-100287 CP-100277 CP-100463 CP-100464 CP-100466 CP-100466 CP-100687 CP-100683 CP-100688 CP-100846 CP-110051 CP-110087 CP-110054 CP-110087 CP-110087 CP-110087 CP-110087 CP-110087 CP-110087 CP-110087	0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0231 0226	1 2 1 1 1 1 1 1 1 1 2 1 1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces	9.3.0	9.4.0		
2010-09 2010-12	CT#49 CT#49 CT#50 CT#51	CP-100287 CP-100277 CP-100463 CP-100464 CP-100465 CP-100466 CP-100687 CP-100688 CP-100688 CP-100846 CP-110051 CP-110087 CP-110087 CP-110087 CP-110087 CP-110087 CP-110087 CP-110087 CP-110087 CP-110087 CP-110088 CP-110349 CP-110349 CP-110349 CP-110349 CP-110349 CP-110349 CP-110349	0183 0186 0190 0197 0196 0198 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0226 0216	1 2 1 1 1 1 1 1 1 1 2 1 1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent	9.3.0	9.4.0		
2010-09 2010-12	CT#49 CT#49 CT#50 CT#51	CP-100287 CP-100277 CP-100463 CP-100464 CP-100465 CP-100466 CP-100687 CP-100688 CP-100688 CP-100684 CP-110051 CP-110054 CP-110087 CP-110088 CP-110349 CP-110349 CP-110349 CP-110349 CP-110359 CP-110370	0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0226 0216 0223	1 1 2 1 1 1 1 1 1 1 1 2 1 1 2 1 1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging	9.3.0	9.4.0		
2010-09 2010-12	CT#49 CT#49 CT#50 CT#51	CP-100287 CP-100277 CP-100463 CP-100464 CP-100465 CP-100466 CP-100687 CP-100688 CP-100688 CP-100846 CP-110051 CP-110087 CP-110087 CP-110087 CP-110087 CP-110087 CP-110087 CP-110087 CP-110087 CP-110087 CP-110088 CP-110349 CP-110349 CP-110349 CP-110349 CP-110349 CP-110349 CP-110349	0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0219 0216 0223 0223 0223	1 1 2 1 1 1 1 1 1 1 1 2 1 2 1 1	AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent	9.3.0	9.4.0		

		CP-110554			AVP code alignment with 29.214		
	Ì	CP-110552	0249		Experimental Result Code Alignment with 29.061		
		CP-110555			Failure code and AVP code alignment with 29.212		
0044.00	OT#50	CP-110722			Priviledged sender	40.40	44.0
2011-09	CT#53	CP-110584 CP-110579		1	Add vSRVCC updates to the Diameter AVP code table AVP code alignment with 32.299	10.4.0	11.0.0
		CP-110579			AVP code angliment with 32.299 AVP code reservation for 29.212	-	ļ
2011-12	CT#54	CP-110812		1	SWx Restoration AVPs	11.0.0	11.1.0
		CP-110812			Sy and Sd Application IDs	1	1
		CP-110775			New AVP codes for MBMS IP unicast encapsulation	1	
	İ	CP-110775	0265		New AVP codes for MBMS IP multicast encapsulation	1	İ
		CP-110786		1	MME-Realm AVP code allocation		
		CP-110811			Equivalent PLMN CSG Subscription Request		
		CP-110781			Restoration of Wildcarded-IMPU AVP	ļ	
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		
		CP-120038	0201	1	Allocating Diameter AVP codes for TS 29.219 and TS 29.212	-	
2012-06	CT#56	CP-120036			Codes Allocation for AVPs on NPLI	11.2.0	11.3.0
2012 00	01#30	CP-120238			Adding new Diameter AVPs to Diameter table to support Trusted	11.2.0	11.5.
		01 120230	0204	'	WLAN Access feature		
		CP-120225	0296	1	Trust Relationship Indication	1	
		CP-120251			Corrections to reference titles	1	
	İ	CP-120251			Diameter Code Allocation for TS 29.219	1	İ
		CP-120247			Network Name AVP codes		
		CP-120219			Duplicated AVP names		
2012-09	CT#57	CP-120481		-	PS additional number allocation	11.3.0	11.4.
		CP-120473			SMS in MME/SGSN	1	
		CP-120461			AAA Failure Recovery AVP codes	1	
		CP-120474			Transport Access Type AVP for BBAI	4	
		CP-120480			Local Time Zone	-	
		CP-120472	0308	-	Allocating Application Identifier and command code for Tsp		
		CP-120472	0200		interface Application Identifier, Command Codes and AVP range for S6m	-	ļ
		CP-120472	0309	-	interface		
		CP-120667	0312	1	GMLC-Name	-	l I
		01 120007	0313		Reference list correction to align with the corrected TS 29.212	-	
			00.0		title		
2012-12	CT#58	CP-120731	0315	2	T4 device triggering via IMS	11.4.0	11.5.0
		CP-120731			Codes and Identifier Allocation for T4 Specification		
		CP-120731	0324	-	AVP Code Allocation for 29.336	1	
		CP-120731			Diameter AVP code value allocation in TS 29.368		
		CP-120732	0319	2	Application Identifier, Command Codes and AVP codes for SGd,		
		05			S6c	_	
		CP-120716			AVP name modification in TS 32.299	-	ļ
		CP-120742			UE Time Zone AVP	-	
		CP-120741	0328	1	Use of Flag instead of Enumerated AVPs	-	
		CP-120741 CP-120743		-	Use of Flag instead of Enumerated AVPs PSI direct routing with restoration procedures	-	
	}	CP-120743		1-	EPS LocationInformation Support	+	1
2013-03	CT#59	CP-120743		1	Diameter error code for TS 29.219	11.5.0	11.6.
2010-00	01#38	CP-130026			MDT parameters	11.5.0	1 1.0.0
2013-03	CT#59	CP-130156			New AVPs for Lgd interface	11.6.0	12.0.
_0.000	2.,,00	CP-130030		-	Validity Time of Short Message	1	. 2.0.
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	1	
		CP-130292			Diameter AVP codes for new TS 32.299 AVPs	1	
		CP-130279	0354	1	Definition of SS Status for Call Barring	_	
		CP-130380	0363	-	New SGs-MME-Identity AVP]	
		CP-130291	0348	2	New AVPs for deferred MT-LR and periodic MO-LR TTTP		
					procedures over Lgd interface		
		CP-130297			Application Port Identifier	4	
	-	CP-130374			MTRR on Sh	-	
		CP-130295	0344	-	Restoration Priority during SGW and PGW restoration		
		CD 400070	0040	1	procedures	-	
	CT#C4	CP-130378			SIPTO permission for Local Network enhancements	10.1.0	10.0
2042.22	CT#61	CP-130454			New MBMS flag for eMBMS restoration	12.1.0	12.2.
2013-09	Ĭ	CP-130461			AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and	-	
2013-09	Ì	CD 120460		1 -	29.215	1	
2013-09		CP-130460	0300				- 1
		CP-130460	0300	_		12 2 0	12.2
		CP-130460	0000	-	Vendor-specific command code for Trigger-Establishment-	12.2.0	12.2.
2013-09	CT#62			-	Vendor-specific command code for Trigger-Establishment- Request/Answer corrected		12.2.
	CT#62	CP-130460 CP-130624		-	Vendor-specific command code for Trigger-Establishment-	12.2.0	12.2.

	1	CP-130800	0371	-	New AVPs for SMS for IMS UE without MSISDN in TS 29.338	7	
		CP-130600			Allocation of Diameter codes for 32.299	1	
		CP-130605		-	Allocation of Diameter codes for 29.212	1	
		CP-130639		-	SGSN CAMEL Subscription Indication		
2014-03	CT#63	CP-140180		2	Protocol enhancements for the support of device replace	12.3.0	12.4.0
					procedure		
	Ì	CP-140035	0384	-	New AVP for the support of combined MME/SGSN	Ī	1
	ĺ	CP-140023			Definition of WLAN-related AVPs	Ī	ĺ
2014-06 CT#64	CT#64	CP-140211			Protocol enhancements to indicate support of device recall and replace by SMS-SC	12.4.0	12.5.0
	Ì	CP-140251	0402	1	AVP allocation for Error handling, MTC error diagnostic	1	Ì
	Ì	CP-140257			SS-Status AVP Definition	†	Ì
	Ì	CP-140252		-	Definition of AVPs for Network Location in TWLAN	†	Ì
		CP-140236		_	TWAN-BSSID AVP re-naming	1	Ì
		CP-140247		_	New AVPs for Trusted WLAN access	1	Ì
		CP-140231		1	Adding Codes for 29.214	†	Ì
2014-09	CT#65	CP-140515	0403	1	T-GRUU restoration	12.5.0	12.6.0
2014 00 01/1/0	01//00	CP-140517			MB2-C codes	12.0.0	12.0.0
		CP-140505			New AVPs for Trusted WLAN access	1	
		CP-140506			P-CSCF Restoration indication	1	ľ
		CP-140516			Closing TS 29.234 and reused AVP in TS 29.273	1	ľ
	1	CP-140513		<u>-</u>	Identification of the HSS	1	ĺ
		01 140010	0400		Editorial: WLAN-offloadability AVP codes added as in CR C4-141648.	1	
2014-12	CT#66	CP-140785	0400	1	New AVP for MBMS restoration	12.6.0	12.7.0
2014-12 011	01#00	01 -140703	0430	_	New Diagnostic-Info AVP for MBMS restoration	12.0.0	12.7.0
			0410	1	WLCP key for WLCP signalling protection	┪	Ì
			0411		Reset-ID	┪	1
			0416		Code definitions for 32.299	┥	ł
			0428		Removal of I-WLAN AVPs	┪	1
	ŀ		0429		Reference correction	†	ŀ
	ŀ		0433		Code allocation for 29.212	†	ŀ
	Ì		0418		MDT PLMN List	†	Ì
			0422		Codes Allocation for PC2 Protocol	┪	Ì
			0423		Codes Allocation for PC4a Protoco	┪	ì
			0431		Allocation of values for Application ID, Command codes, AVP	┪	ì
			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	1	
			0.0.		Information Retrieval		
	Ì		0425	-	Corrections of the type of some AVPs	1	Ì
	İ		0426		OFR-Flags AVP code	1	ĺ
	İ		0427		P-CSCF Restoration mechanism new error	1	Î
2015-03	CT#67	CP-150015		-	Renaming of Location-Type AVP	12.7.0	12.8.0
			0437	1	Location reporting in emergency 1xSRVCC	1	
	İ		0435	-	AVP codes for GCSE MB2-C	Ī	ĺ
			0442	1	New AVPs and range of transient failure result codes in TS 29.214]	
			0438	1	Allocation of code for Authorized-Discovery-Range AVP (TS 29.344)]	
	İ		0440	2	Location Update Trigger	Ī	ĺ
	İ		0441	1	AVP codes allocation for Validity related AVPs for TS 29.345	Ī	ĺ
	İ		0443	-	Allocation of codes for the Integrity Checks. Aspect AVPs	Ī	ĺ
2015-06	CT#68	CP-150257	0448	1	AVP code allocation for Match Refresh Timer AVP in TS 29.345	12.8.0	12.9.0
	İ	CP-150248		1	IP-SM-GW-Realm	Ī	
		CP-150245		-	Wrong CR implementation of CR 0416r1	Ī	ĺ
	İ	CP-150249		1	AVP code allocation for 32.299	Ī	ĺ
2015-09	CT#69	CP-150431		-	AVP codes for TS 29.212	12.9.0	12.10.0
				1	Allowed WAF and/or WWSF Identities	12.10.0	12.11.0
	CT#70	CP-150754	0460		Allowed WAI alla/of WWOI lacitities	12.10.0	12.11.0
2015-12	CT#70	CP-150754 CP-150755			Metadata in Match-Report	12.10.0	12.11.0

History

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