## ETSI TS 129 230 V16.5.0 (2021-01)



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

LTE; 5G;

Diameter applications; 3GPP specific codes and identifiers (3GPP TS 29.230 version 16.5.0 Release 16)



# Reference RTS/TSGC-0429230vg50 Keywords 5G,GSM,LTE,UMTS

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## Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the <u>ETSI Drafting Rules</u> (Verbal forms for the expression of provisions).

"must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

## Contents

Intell	ectual Property Rights	2
Legal	1 Notice	2
Moda	al verbs terminology	2
Forev	word	4
1	Scope	6
2	References	6
3 3.1 3.2	Definitions and abbreviations  Definitions  Abbreviations	8
4 4.1	Application identifiers	
5 5.1	Command codes	
6 6.1	Vendor identifier	
7 7.1	Attribute-Value-Pair codes 3GPP specific AVP codes	
8 8.1 8.1.1 8.1.2 8.1.3 8.1.4	Experimental result codes  3GPP specific result codes  Informational  Success.  Transient Failures  Permanent Failures	40 40 40
Anne	ex A (informative): Assignment of the Diameter codes and identifiers in 3GPP	46
A.1	Application identifiers	46
A.2	Command codes	46
A.3	AVP codes	46
A.4	Result codes	46
Anne	ex B (informative): Change history	48
Histo	ry	54

#### **Foreword**

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

In the present document, modal verbs have the following meanings:

shall indicates a mandatory requirement to do somethingshall not indicates an interdiction (prohibition) to do something

The constructions "shall" and "shall not" are confined to the context of normative provisions, and do not appear in Technical Reports.

The constructions "must" and "must not" are not used as substitutes for "shall" and "shall not". Their use is avoided insofar as possible, and they are not used in a normative context except in a direct citation from an external, referenced, non-3GPP document, or so as to maintain continuity of style when extending or modifying the provisions of such a referenced document.

**should** indicates a recommendation to do something

**should not** indicates a recommendation not to do something

**may** indicates permission to do something

**need not** indicates permission not to do something

The construction "may not" is ambiguous and is not used in normative elements. The unambiguous constructions "might not" or "shall not" are used instead, depending upon the meaning intended.

can indicates that something is possiblecannot indicates that something is impossible

The constructions "can" and "cannot" are not substitutes for "may" and "need not".

will indicates that something is certain or expected to happen as a result of action taken by an agency

the behaviour of which is outside the scope of the present document

will not indicates that something is certain or expected not to happen as a result of action taken by an

agency the behaviour of which is outside the scope of the present document

might indicates a likelihood that something will happen as a result of action taken by some agency the

behaviour of which is outside the scope of the present document

might not indicates a likelihood that something will not happen as a result of action taken by some agency

the behaviour of which is outside the scope of the present document

In addition:

is (or any other verb in the indicative mood) indicates a statement of fact

is not (or any other negative verb in the indicative mood) indicates a statement of fact

The constructions "is" and "is not" do not indicate requirements.

## 1 Scope

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

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

#### 2 References

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

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

Diameter protocol; Stage 3".

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

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

[17]	3GPP TS 29.211, Release 6: "Rx Interface and Rx/Gx signalling flows".
[18]	3GPP TS 29.214: "Policy and Charging Control over Rx reference point".
[19]	3GPP TS 29.212: "Policy and Charging Control (PCC); Reference points".
[20]	3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces".
[21]	3GPP TS 29.272: "Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol".
[22]	3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point; Stage 3".
[23]	IETF RFC 5516: "Diameter Command Code Registration for Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)".
[24]	3GPP TS 29.172: "Location Services (LCS); Evolved Packet Core (EPC) LCS Protocol (ELP) between the Gateway Mobile Location Centre (GMLC) and the Mobile Management Entity (MME); SLg interface".
[25]	3GPP TS 29.173: "Location Services (LCS); Diameter-based SLh interface for Control Plane LCS".
[26]	3GPP TS 29.219: "Policy and Charging Control: Spending Limit Reporting over Sy reference point".
[27]	3GPP TS 29.368: "Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS)".
[28]	3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications".
[29]	3GPP TS 29.337: "Diameter-based T4 interface for communications with packet data networks and applications".
[30]	3GPP TS 29.338: "Diameter based protocols to support SMS capable MMEs".
[31]	3GPP TS 29.468: "Group Communication System Enablers for LTE (GCSE_LTE)".
[32]	3GPP TS 29.343: "Proximity-services (ProSe) function to ProSe application server aspects (PC2)".
[33]	3GPP TS 29.344: "Proximity-services (ProSe) Function to Home Subscriber Server (HSS) aspects".
[34]	3GPP TS 29.345: "Inter-Proximity-services (Prose) function signalling aspects; Stage 3".
[35]	3GPP TS 29.217: "Policy and Charging Control over Np reference point".
[36]	3GPP TS 29.128: "Diameter based T6a/T6b interface between the MME/SGSN and the SCEF".
[37]	3GPP TS 29.153: "Service exposure functionality between SCEF and RCAF reference point".
[38]	3GPP TS 29.154: "Service capability exposure functionality over Nt Reference point".
[39]	3GPP TS 29.283: "Diameter Data Management applications".
[40]	3GPP TS 29.388: "V2X Control Function to V2X Control Function to Home Subscriber Server (HSS) aspects (V4)".
[41]	3GPP TS 29.389: "Inter-V2X Control Function Signalling aspects (V6)".
[42]	3GPP TS 29.561: "Interworking between 5G Network and external Data Networks; 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 16777308	3GPP Sd 3GPP S7a	29.212 [19] 29.272 [21]
16777309	3GPP Tsp	29.368 [27]
16777310	3GPP S6m	29.336 [28]
16777311	3GPP T4	29.337 [29]
16777312	3GPP S6c	29.338 [30]
16777313	3GPP SGd	29.338 [30]
16777318	3GPP S15	29.212 [19]
16777319	3GPP S9a	29.215 [22]
16777320	3GPP S9a*	29.215 [22]
16777335	3GPP MB2-C	29.468 [31]
16777336	3GPP PC4a	29.344 [33]
16777337	3GPP PC2	29.343 [32]
16777340	3GPP PC6/PC7	29.345 [34]
16777342	3GPP Np	29.217 [35]
16777345	3GPP S6t	29.336 [28]
16777346	3GPP T6a/T6b	29.128 [36]
16777347	3GPP Ns	29.153[37]
16777348	3GPP Nt	29.154[38]
16777349	3GPP St	29.212 [19]
16777350	3GPP PC2	29.343 [32]
16777351	3GPP Diameter Data	29.283 [39]
	Management	
16777355	3GPP V4	29.388 [40]
16777356	3GPP V6	29.389 [41]
16777358	3GPP Nta	29.154 [38]

#### 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		ecified in GPP TS					
300	User-Authorization-Request/-Answer	UAR/UAA							
301	Server-Assignment-Request/-Answer	SAR/SAA	29.229 [2]						
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	20	9.329 [4]					
308	Subscribe-Notifications-Request/-Answer	SNR/SNA	۷:	9.329 [4]					
309	Push-Notification-Request/-Answer	PNR/PNA							
310	Boostrapping-Info-Request/Answer	BIR/BIA	29	9.109 [7]					
•	311 Message-Process-	Request/Answer	, and the second	MPR/MI	PA	29.140			
	312 GBAPush-Info-Req	uest/Answer		GPR/G	PI	29.10			

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS	
8388620	Provide-Location-Request/Answer	PLR/PLA		
8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]	
8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]	
8388635	Spending-Limit-Request/Answer	SLR/SLA		
8388636	Spending-Status-Notification- Request/Answer	SNR/SNA	29.219 [26]	
8388637	TDF-Session-Request/Answer	TSR/TSA		
8388731	TSSF-Notification-Request/Answer	TNR/TNA	29.212 [19]	
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	00 070 [04]	
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]	
8388639	Device-Action-Request/Answer	DAR/DAA		
8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]	
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]	
8388718	Configuration-Information- Request/Answer	CIR/CIA		
8388719	Reporting-Information-Request/Answer	RIR/RIA	29.336 [28]	
8388726	NIDD-Information-Request/Answer	NIR/NIA		
8388643	Device-Trigger-Request/Answer	DTR/DTA		
8388644	Delivery-Report-Request/Answer	DRR/DRA	29.337 [29]	
8388645	MO-Forward-Short-Message Request/Answer	OFR/OFA		
8388646	MT-Forward-Short-Message Request/Answer	TFR/TFA		
8388647	Send-Routing-Info-for-SM- Request/Answer	SRR/SRA	29.338 [30]	
8388648	Alert-Service-Centre-Request/Answer	ALR/ALA		
8388649	Report-SM-Delivery-Status- Request/Answer	RDR/RDA		
8388656	Trigger-Establishment-Request/Answer	TER/TEA	29.215 [30]	
8388662	GCS-Action-Request/Answer	GAR/GAA		
8388663	GCS-Notification-Request/Answer	GNR/GNA	29.468 [31]	
8388664	ProSe-Subscriber-Information- Request/Answer	PIR/PIA		
8388665	Update-ProSe-Subscriber-Data- Request/Answer	UPR/UPA		
8388666	ProSe-Notify-Request/Answer	PNR/PNA	29.344 [33]	
8388713	ProSe-Initial-Location-Information- Request/Answer	PSR/PSA		
8388668	ProSe-Authorization-Request/Answer	PAR/PAA		
8388669	ProSe-Discovery-Request/Answer	PDR/PDA	29.345 [34]	
8388670	ProSe-Match-Request/Answer	PMR/PMA		

8388671	ProSe-Match-Report-Info- Request/Answer	PIR/PIA	
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	
8388674	ProSe-Alert-Request/Answer	ALR/ALA	
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	
8388676	ProXimity-Action-Request/Answer	PXR/PXA	00 0 40 [00]
8388727	ProXimity-Application-Request/Answer	XAR/XAA	29.343 [32]
8388720	Non-Aggregated-RUCI-Report- Request/Answer	NRR/NRA	
8388721	Aggregated-RUCI-Report- Request/Answer	ARR/ARA	29.217 [35]
8388722	Modify-Uecontext-Request/Answer	MUR/MUA	
8388724	Network-Status-Request/Answer	NSR/NSA	00 450 [07]
8388725	Network-Status-Continuous-Report- Request/Answer	NCR/NCA	29.153 [37]
8388723	Background-Data-Transfer- Request/Answer	BTR/BTA	29.154 [38]
8388728	Data-Pull-Request/Answer	DPR/DPA	
8388729	Data-Update-Request/Answer	DUR/DUA	29.283 [39]
8388730	Notification-Data-Request/Answer	NDR/NDA	
8388732	Connection-Management- Request/Answer	CMR/CMA	
8388733	MO-Data-Request/Answer	ODR/ODA	29.128 [36]
8388734	MT-Data-Request/Answer	TDR/TDA	
8388735	Event-Configuration-Request/Answer	ECR/ECA	20.454 [20]
8388736	Event-Reporting-Request/Answer	ERR/ERA	29.154 [38]

#### 6 Vendor identifier

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

#### 6.1 3GPP's vendor identifier

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

#### 7 Attribute-Value-Pair codes

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

## 7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
	3GPP-WLAN-APN-Id	OctetString	
_	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
	3GPP-WLAN-QoS-Filter-Support	OctetString	0 :"
Attribu	The AVP codes from 1 to 255 are reserved for backwards conutes (See 3GPP TS 29.061 [13], 3GPP TS 29.561 [42] and 3G		Specific
	The AVP codes from 256 to 299 are reserved for future use.	Course vete d	
	Authentication-Method Authentication-Information-SIM	Enumerated OctetString	
	Authorization -Information-SIM	OctetString	<del></del>
	WLAN-User-Data	Grouped	
	Charging-Data	Grouped	
	WLAN-Access	Enumerated	
306	WLAN- 3GPP-IP-Access	Enumerated	
	APN-Authorized	Grouped	
	APN-Id		
	APN-Barring-Type	Enumerated	29.234 [6]
	WLAN-Direct-IP-Access	Enumerated	
	Session-Request-Type	Enumerated	
	Routing-Policy Max-Requested-Bandwidth	IPFilterRule OctetString	<del> </del>
	Max-Requested-Bandwidth Charging-Characteristics	Integer	<del></del>
	Charging-Nodes	Grouped	
	Primary-OCS-Charging-Function-Name	DiameterIdentity	
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	<del></del>
	3GPP-AAA-Server-Name	DiameterIdentity	
	Maximum-Number-Accesses	Unsigned32	
Note 1	1: The AVP codes from 320 to 399 are reserved for TS 29.234	·	<b>'</b>
	2: The 3GPP-AAA-Server-Name definition is moved to TS 29.2		
400	GBA-UserSecSettings	OctetString	
	Transaction-Identifier NAF-Hostname	OctetString OctetString	
	GAA-Service-Identifier	OctetString	
404	Key-ExpiryTime	Time	
405	ME-Key-Material	OctetString	
406	UICC-Key-Material GBA U-Awareness-Indicator	OctetString Enumerated	
408	BootstrapInfoCreationTime	Time	<del></del>
409	GUSS-Timestamp	Time	
410	GBA-Type	Enumerated	29.109 [7]
	UE-Id	OctetString	
	UE-Id-Type UICC-App-Label	Enumerated OctetString	<del></del>
	UICC-ME	Enumerated	
415	Requested-Key-Lifetime	Time	
	Private-Identity-Request	Enumerated	
	GBA-Push-Info NAF-SA-Identifier	OctetString OctetString	
419	Security-Feature-Request	OctetString	
420	Security-Feature-Response	OctetString	
	The AVP codes from 421 to 499 are reserved for TS 29.109		
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	
	Access-Network-Charging-Identifier	Grouped	
	Access-Network-Charging-Identifier-Value	OctetString	<del></del>
	AF-Application-Identifier	OctetString	29.209
	AF-Charging-Identifier Authorization-Token	OctetString OctetString	[8],
	Flow-Description	IPFilterRule	29.211
	Flow-Grouping	Grouped	[17],
	Flow-Number	Unsigned32	29.214
	Flows	Grouped	[18]
	Flow-Status	Enumerated	
	Flow-Usage	Enumerated	
	<u> </u>		<del></del>
513	Specific-Action  Max-Requested-Bandwidth	Enumerated	

515 Max-Requested-Bandwidth-DL	Unsigned32
516 Max-Requested-Bandwidth-UL	Unsigned32
517 Media-Component-Description	Grouped
518 Media-Component-Number	Unsigned32
519 Media-Sub-Component AVP	Grouped
520 Media-Type 521 RR-Bandwidth	Enumerated
	Unsigned32
522 RS-Bandwidth 523 SIP-Forking-Indication	Unsigned32 Enumerated
524 Codec-Data	OctetString
525 Service-URN	OctetString
526 Acceptable-Service-Info	Grouped
527 Service-Info-Status	Enumerated
528 MPS-Identifier	OctetString
529 AF-Signalling-Protocol	Enumerated
530 Sponsored-Connectivity-Data	Grouped
531 Sponsor-Identity	OctetString
532 Application-Service-Provider-Identity	OctetString
533 Rx-Request-Type	Enumerated
534 Min-Requested-Bandwidth-DL	Unsigned32
535 Min-Requested-Bandwidth-UL	Unsigned32
536 Required-Access-Info	Enumerated
537 IP-Domain-Id	OctetString
538 GCS-Identifier	OctetString
539 Sharing-Key-DL	Unsigned32
540 Sharing-Key-UL	Unsigned32
541 Retry-Interval	Unsigned32
542 Sponsoring-Action	Enumerated
543 Max-Supported-Bandwidth-DL	Unsigned32
544 Max-Supported-Bandwidth-UL	Unsigned32
545 Min-Desired-Bandwidth-DL	Unsigned32
546 Min-Desired-Bandwidth-UL	Unsigned32
547 MCPTT-Identifier 548 Service-Authorization-Info	OctetString Unsigned32
549 Media-Component-Status	Unsigned32
550 Priority-Sharing-Indicator	Enumerated
551 AF-Requested-Data	Unsigned32
552 Content-Version	Unsigned64
553 Pre-emption-Control-Info	Unsigned32
554 Extended-Max-Requested-BW-DL	Unsigned32
555 Extended-Max-Requested-BW-UL	Unsigned32
556 Extended-Max-Supported-BW-DL	Unsigned32
557 Extended-Max-Supported-BW-UL	Unsigned32
558 Extended-Min-Desired-BW-DL	Unsigned32
559 Extended-Min-Desired-BW-UL	Unsigned32
560 Extended-Min-Requested-BW-DL	Unsigned32
561 Extended-Min-Requested-BW-UL	Unsigned32
562 MCVideo-Identifier	OctetString
563 IMS-Content-Identifier	OctetString
564 IMS-Content-Type	Enumerated
565 Callee-Information	Grouped
566 FLUS-Identifier	OctetString
567 Desired-Max-Latency	Float32
568 Desired-Max-Loss	Float32
569 NID	OctetString
570 MA-Information	Grouped
571 MA-Information-Action	Unsigned32
572 5GS-RAN-NAS-Release-Cause	Grouped
573 5GMM-Cause	Unsigned32
574 5GSM-Cause	Unsigned32
575 NGAP-Cause 576 NGAP-Group	Grouped Unsigned32
576 NGAP-Group	Unsigned32 Unsigned32
577 NGAP-value  578 Wireline-User-Location-Info	Grouped
579 HFC-Node-Identifier	OctetString
Oro pin o-Node-Identinei	Octototility

E00	GLI-Identifier	OptotCtring	1
		OctetString	4
	Line-Type	Unsigned32	
	The AVP codes from 582 to 599 are reserved for TS 29.209, TS		
	Visited-Network-Identifier	OctetString	4
	Public-Identity	UTF8String	4
	Server-Name	UTF8String	4
	Server-Capabilities	Grouped	<del>- </del>
	Mandatory-Capability	Unsigned32	<del>- </del>
	Optional-Capability	Unsigned32	_
	User-Data	OctetString	_
	SIP-Number-Auth-Items	Unsigned32	4
	SIP-Authentication-Scheme	UTF8String	4
	SIP-Authenticate	OctetString	<u> </u>
	SIP-Authorization	OctetString	_
	SIP-Authentication-Context	OctetString	
	SIP-Auth-Data-Item	Grouped	
	SIP-Item-Number	Unsigned32	
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
	Reason-Info	UTF8String	
618	Charging-Information	Grouped	
619	Primary-Event-Charging-Function-Name	DiameterURI	
	Secondary-Event-Charging-Function-Name	DiameterURI	
621	Primary-Charging-Collection-Function-Name	DiameterURI	
622	Secondary-Charging-Collection-Function-Name	DiameterURI	
623	User-Authorization-Type	Enumerated	
624	User-Data-Already-Available	Enumerated	
625	Confidentiality-Key	OctetString	
626	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	00 000 101
	Supported-Applications	Grouped	29.229 [2]
	Associated-Identities	Grouped	
	Originating-Request	Enumerated	1
	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	<del> </del>
	Loose-Route-Indication	<u> </u>	
		I Enumerated	
	ISCSCF-Restoration-Info	Enumerated Grouped	<del> </del>
640	SCSCF-Restoration-Info Path	Grouped	
	Path	Grouped OctetString	
641	Path Contact	Grouped OctetString OctetString	
641 642	Path Contact Subscription-Info	Grouped OctetString OctetString Grouped	
641 642 643	Path Contact Subscription-Info Call-ID-SIP-Header	Grouped OctetString OctetString Grouped OctetString	-
641 642 643 644	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header	Grouped OctetString OctetString Grouped OctetString OctetString OctetString	
641 642 643 644 645	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString	
641 642 643 644 645 646	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString	
641 642 643 644 645 646 647	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString	
641 642 643 644 645 646 647 648	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated	
641 642 643 644 645 646 647 648 649	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Erouped Enumerated Grouped	
641 642 643 644 645 646 647 648 649	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Erouped Enumerated Grouped Enumerated Enumerated	
641 642 643 644 645 646 647 648 649 650	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Grouped	
641 642 643 644 645 646 647 648 649 650 651	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Grouped Enumerated Grouped Enumerated	
641 642 643 644 645 646 647 648 649 650 651 652	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32	
641 642 643 644 645 646 647 648 649 650 651 652 653	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32	
641 642 643 644 645 646 647 648 649 650 651 652 653 654	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number SAR-Flags	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32 Unsigned32	
641 642 643 644 645 646 647 648 649 650 651 652 653 654 655	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number SAR-Flags Allowed-WAF-WWSF-Identities	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32 Unsigned32 Grouped	
641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number SAR-Flags Allowed-WAF-WWSF-Identities WebRTC-Authentication-Function-Name	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String	
641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number SAR-Flags Allowed-WAF-WWSF-Identities WebRTC-Authentication-Function-Name	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String	
641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number SAR-Flags Allowed-WAF-WWSF-Identities WebRTC-Authentication-Function-Name WebRTC-Web-Server-Function-Name	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Unsigned32	
641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number SAR-Flags Allowed-WAF-WWSF-Identities WebRTC-Authentication-Function-Name WebRTC-Web-Server-Function-Name RTR-Flags P-CSCF-Subscription-Info	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Unsigned32 Grouped	
641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658	Path Contact Subscription-Info Call-ID-SIP-Header From-SIP-Header To-SIP-Header Record-Route Associated-Registered-Identities Multiple-Registration-Indication Restoration-Info Session-Priority Identity-with-Emergency-Registration Priviledged-Sender-Indication LIA-Flags Initial-CSeq-Sequence-Number SAR-Flags Allowed-WAF-WWSF-Identities WebRTC-Authentication-Function-Name WebRTC-Web-Server-Function-Name	Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Enumerated Grouped Enumerated Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Unsigned32	

Social Content   Soci	Note:	The AVP codes from 662 to 699 are reserved for TS 29.229.		
Total   Misison   October   Octobe			Grouped	
Total   User-Data   OctoString   OctoStrin				†
103   Data-Reference				†
Total				†
2015   2015				†
Total				†
Top   Current-Location				†
Gentily-Set				†
Time				†
29.329   4				†
1711   DSAI-Tag				†
Title   Discrimentation   Enumerated   Title   Requested Nodes   Unsigned32				20 320 [4]
Table   Tabl			J	
Serving-Node-Indication				+
T15   Repository-Data-ID				+
Title   Description   Descri				+
Title				+
Title   Local-Time-Zone-Indication				<del> </del>
T19   UDR-Flags				+
T20   Call-Reference-Info				4
Call-Reference-Number				1
Note: The AVP codes from 723 to799 are reserved for TS 29.329.   Note: The AVP codes from 800 to 822 are reserved for TS 32.299.   823   Event-Type				4
Note: The AVP codes from 723 to 799 are reserved for TS 29.329.				4
Note: The AVP codes from 800 to 822 are reserved for TS 32.299.			OctetString	
Event-Type				
SIP-Method				1
Event				_
826         Content-Type         UTF8String           827         Content-Length         Unsigned32           828         Content-Disposition         UTF8String           829         Role-of-Node         Enumerated           830         User-Session-Id         UTF8String           831         Calling-Party-Address         UTF8String           832         Called-Party-Address         UTF8String           833         Time-Stamps         Grouped           834         SIP-Response-Timestamp         Time           835         SIP-Response-Timestamp         Time           836         SIP-Response-Timestamp         UTF8String           837         Application-Server         UTF8String           838         Inter-Operator-Identifier         Grouped           839         Originating-IOI         UTF8String           840         Terminating-IOI         UTF8String           841         IMS-Charging-Identifier         UTF8String           842         SDP-Session-Description         UTF8String           843         SDP-Media-Component         Grouped           844         SDP-Media-Description         UTF8String           845         SDP-Media-Description         U				
827         Content-Length         Unsigned32           828         Content-Disposition         UTF8String           829         Role-O-Node         Enumerated           830         User-Session-Id         UTF8String           831         Calling-Party-Address         UTF8String           832         Called-Party-Address         UTF8String           833         Time-Stamps         Grouped           834         SIP-Request-Timestamp         Time           835         SIP-Response-Timestamp         Time           836         Application-Server         UTF8String           837         Application-Server         UTF8String           838         Inter-Operator-Identifier         Grouped           839         Originating-IOI         UTF8String           840         Terminating-IOI         UTF8String           841         IMS-Charging-Identifier         UTF8String           842         SDP-Session-Description         UTF8String           843         SDP-Media-Component         Grouped           844         SDP-Media-Description         UTF8String           845         SDP-Media-Description         UTF8String           846         CG-Address         Address </td <td></td> <td></td> <td></td> <td>1</td>				1
Role-of-Node				1
Role-of-Node				1
830         User-Session-Id         UTF8String           831         Calling-Party-Address         UTF8String           832         Called-Party-Address         UTF8String           833         Time-Stamps         Grouped           834         SIP-Request-Timestamp         Time           835         SIP-Response-Timestamp         Time           836         Application-Server         UTF8String           837         Application-provided-called-party-address         UTF8String           838         Inter-Operator-Identifier         Grouped           839         Originating-IOI         UTF8String           840         Terminating-IOI         UTF8String           841         IMS-Charging-Identifier         UTF8String           842         SDP-Session-Description         UTF8String           843         SDP-Media-Component         Grouped           844         SDP-Media-Description         UTF8String           845         SDP-Media-Description         UTF8String           846         CG-Address         Address           847         GGSN-Address         Address           848         Served-Party-IP-Address         Address           849         Authorized-QoS				
831 Calling-Party-Address         UTF8String           832 Called-Party-Address         UTF8String           833 Time-Stamps         Grouped           834 SIP-Request-Timestamp         Time           835 SIP-Response-Timestamp         UTF8String           836 Application-Server         UTF8String           837 Application-provided-called-party-address         UTF8String           838 Inter-Operator-Identifier         Grouped           839 Originating-IOI         UTF8String           840 Terminating-IOI         UTF8String           841 IMS-Charging-Identifier         UTF8String           842 SDP-Session-Description         UTF8String           843 SDP-Media-Component         Grouped           844 SDP-Media-Name         UTF8String           845 SDP-Media-Description         UTF8String           846 CG-Address         Address           847 GGSN-Address         Address           848 Served-Party-IP-Address         Address           849 Authorized-QoS         UTF8String           850 Application-Server-Information         Grouped           851 Trunk-Group-Id         UTF8String           852 Incoming-Trunk-Group-Id         UTF8String           853 Outgoing-Trunk-Group-Id         UTF8String           855 S				
832 Called-Party-Address         UTF8String           833 Time-Stamps         Grouped           834 SIP-Request-Timestamp         Time           835 SIP-Response-Timestamp         Time           836 Application-Server         UTF8String           837 Application-provided-called-party-address         UTF8String           838 Inter-Operator-Identifier         Grouped           839 Originating-IOI         UTF8String           840 Terminating-IOI         UTF8String           841 IMS-Charging-Identifier         UTF8String           842 SDP-Session-Description         UTF8String           843 SDP-Media-Component         Grouped           844 SDP-Media-Name         UTF8String           845 SDP-Media-Description         UTF8String           846 CG-Address         Address           847 GGSN-Address         Address           848 Served-Party-IP-Address         Address           849 Authorized-QoS         UTF8String           850 Application-Server-Information         Grouped           851 Trunk-Group-Id         Grouped           852 Incoming-Trunk-Group-Id         UTF8String           853 Outgoing-Trunk-Group-Id         UTF8String           854 Associated-URI         UTF8String           855 Service-Id			UTF8String	
833 Time-Stamps Grouped  834 SIP-Request-Timestamp Time  835 SIP-Response-Timestamp Time  836 Application-Server UTF8String  837 Application-provided-called-party-address UTF8String  838 Inter-Operator-Identifier Grouped  839 Originating-IOI UTF8String  840 Terminating-IOI UTF8String  841 IMS-Charging-Identifier UTF8String  842 SDP-Session-Description UTF8String  843 SDP-Media-Component Grouped  844 SDP-Media-Name UTF8String  845 SDP-Media-Description UTF8String  846 CG-Address Address  847 GGSN-Address Address  848 Served-Party-IP-Address Address  849 Authorized-QoS UTF8String  850 Application-Server-Information Grouped  851 Trunk-Group-Id Grouped  852 Incoming-Trunk-Group-Id UTF8String  853 Outgoing-Trunk-Group-Id UTF8String  854 Bearer-Service OctetString  855 Service-Id UTF8String  856 Associated-URI UTF8String  857 Charged-Party  UTF8String  858 PoC-Controlling-Address UTF8String  859 PoC-Group-Name UTF8String  860 Cause Grouped UTF8String			UTF8String	
834 SIP-Request-Timestamp  SIF-Response-Timestamp  Time  336 Application-Server  337 Application-provided-called-party-address  UTF8String  338 Inter-Operator-Identifier  SIP-Response-Timestamp  WIF8String  WIFRString  WIRRString  WIR	832	Called-Party-Address		
834 SIP-Request-Timestamp  SIF-Response-Timestamp  Time  336 Application-Server  337 Application-provided-called-party-address  UTF8String  338 Inter-Operator-Identifier  SIP-Response-Timestamp  WIF8String  WIFRString  WIRRString  WIR	833	Time-Stamps	Grouped	1
835     SIP-Response-Timestamp     Time       836     Application-Server     UTF8String       837     Application-provided-called-party-address     UTF8String       838     Inter-Operator-Identifier     Grouped       839     Originating-IOI     UTF8String       840     Terminating-IOI     UTF8String       841     IMS-Charging-Identifier     UTF8String       842     SDP-Session-Description     UTF8String       843     SDP-Media-Component     Grouped       844     SDP-Media-Name     UTF8String       845     SDP-Media-Description     UTF8String       846     CG-Address     Address       847     GGSN-Address     Address       848     Served-Party-IP-Address     Address       849     Authorized-QoS     UTF8String       850     Application-Server-Information     Grouped       851     Trunk-Group-Id     UTF8String       852     Incoming-Trunk-Group-Id     UTF8String       853     Service-Id     UTF8String       854     Bearer-Service     OctetString       855     Service-Id     UTF8String       856     Associated-URI     UTF8String       857     Charged-Party     UTF8String       858     Po	834	SIP-Request-Timestamp	Time	Ī
836 Application-Server  37 Application-provided-called-party-address  38 Inter-Operator-Identifier  39 Originating-IOI  40 Terminating-IOI  41 IMS-Charging-Identifier  42 SDP-Session-Description  43 SDP-Media-Component  44 SDP-Media-Name  45 SDP-Media-Description  46 CG-Address  47 GGSN-Address  48 Served-Party-IP-Address  48 Served-Party-IP-Address  49 Authorized-QoS  40 Application-Server-Information  40 TF8String  41 IMS-Charging-Identifier  42 SDP-Session-Description  43 SDP-Media-Description  44 SDP-Media-Description  45 SDP-Media-Description  46 CG-Address  47 GGSN-Address  48 Served-Party-IP-Address  49 Authorized-QoS  40 ITF8String  40 Application-Server-Information  40 Grouped  41 ITRA-Group-Id  41 ITRA-Group-Id  42 Incoming-Trunk-Group-Id  43 ITrunk-Group-Id  44 SDP-Session-Party-IP-String  45 Service-Id  46 CG-Address  47 GGSN-Address  48 Server-Service  49 Authorized-QoS  40 ITF8String  40 Application-Server-Information  40 Grouped  41 ITRA-Group-Id  42 Incoming-Trunk-Group-Id  43 UTF8String  44 IMS-Charged-Party  45 ITRA-Group-Id  46 ITRA-Group-Id  47 ITRA-Group-Id  48 ITRA-Group-Id  49 ITRA-Group-Id  40 ITRA-Group-	835	SIP-Response-Timestamp	Time	Ī
Application-provided-called-party-address   UTF8String			UTF8String	1
839         Originating-IOI         UTF8String           840         Terminating-IOI         UTF8String           841         IMS-Charging-Identifier         UTF8String           842         SDP-Session-Description         UTF8String           843         SDP-Media-Component         Grouped           844         SDP-Media-Name         UTF8String           845         SDP-Media-Description         UTF8String           846         CG-Address         Address           847         GGSN-Address         Address           848         Served-Party-IP-Address         Address           849         Authorized-QoS         UTF8String           850         Application-Server-Information         Grouped           851         Trunk-Group-Id         Grouped           851         Trunk-Group-Id         UTF8String           853         Outgoing-Trunk-Group-Id         UTF8String           854         Bearer-Service         OctetString           855         Service-Id         UTF8String           856         Associated-URI         UTF8String           857         Charged-Party         UTF8String           858         PoC-Controlling-Address         UTF8String <td></td> <td></td> <td></td> <td>1</td>				1
839         Originating-IOI         UTF8String           840         Terminating-IOI         UTF8String           841         IMS-Charging-Identifier         UTF8String           842         SDP-Session-Description         UTF8String           843         SDP-Media-Component         Grouped           844         SDP-Media-Name         UTF8String           845         SDP-Media-Description         UTF8String           846         CG-Address         Address           847         GGSN-Address         Address           848         Served-Party-IP-Address         Address           849         Authorized-QoS         UTF8String           850         Application-Server-Information         Grouped           851         Trunk-Group-Id         Grouped           851         Trunk-Group-Id         UTF8String           853         Outgoing-Trunk-Group-Id         UTF8String           854         Bearer-Service         OctetString           855         Service-Id         UTF8String           856         Associated-URI         UTF8String           857         Charged-Party         UTF8String           858         PoC-Controlling-Address         UTF8String <td>838</td> <td>Inter-Operator-Identifier</td> <td>Grouped</td> <td>1</td>	838	Inter-Operator-Identifier	Grouped	1
840         Terminating-IOI         UTF8String           841         IMS-Charging-Identifier         UTF8String           842         SDP-Session-Description         UTF8String           843         SDP-Media-Component         Grouped           844         SDP-Media-Name         UTF8String           845         SDP-Media-Description         UTF8String           846         CG-Address         Address           847         GGSN-Address         Address           848         Served-Party-IP-Address         Address           849         Authorized-QoS         UTF8String           850         Application-Server-Information         Grouped           851         Trunk-Group-Id         UTF8String           852         Incoming-Trunk-Group-Id         UTF8String           853         Outgoing-Trunk-Group-Id         UTF8String           854         Bearer-Service         OctetString           855         Service-Id         UTF8String           856         Associated-URI         UTF8String           857         Charged-Party         UTF8String           858         PoC-Controlling-Address         UTF8String           859         PoC-Group-Name         UTF8String </td <td></td> <td></td> <td></td> <td>†</td>				†
841 IMS-Charging-Identifier         UTF8String           842 SDP-Session-Description         UTF8String           843 SDP-Media-Component         Grouped           844 SDP-Media-Name         UTF8String           845 SDP-Media-Description         UTF8String           846 CG-Address         Address           847 GGSN-Address         Address           848 Served-Party-IP-Address         Address           849 Authorized-QoS         UTF8String           850 Application-Server-Information         Grouped           851 Trunk-Group-Id         Grouped           852 Incoming-Trunk-Group-Id         UTF8String           853 Outgoing-Trunk-Group-Id         UTF8String           854 Bearer-Service         OctetString           855 Service-Id         UTF8String           856 Associated-URI         UTF8String           857 Charged-Party         UTF8String           858 PoC-Controlling-Address         UTF8String           859 PoC-Group-Name         UTF8String           860 Cause         Grouped				1
842SDP-Session-DescriptionUTF8String843SDP-Media-ComponentGrouped844SDP-Media-NameUTF8String845SDP-Media-DescriptionUTF8String846CG-AddressAddress847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				†
843 SDP-Media-Component  844 SDP-Media-Name  845 SDP-Media-Description  846 CG-Address  847 GGSN-Address  848 Served-Party-IP-Address  849 Authorized-QoS  840 Application-Server-Information  851 Trunk-Group-Id  852 Incoming-Trunk-Group-Id  853 Outgoing-Trunk-Group-Id  854 Bearer-Service  855 Service-Id  856 Associated-URI  857 Charged-Party  858 PoC-Controlling-Address  849 UTF8String  850 UTF8String  851 UTF8String  852 UTF8String  853 Outgoing-Trunk-Group-Id  854 UTF8String  855 Service-Id  856 Associated-URI  857 Charged-Party  858 PoC-Controlling-Address  859 PoC-Group-Name  860 Cause  Grouped				32,299 [5]
844SDP-Media-NameUTF8String845SDP-Media-DescriptionUTF8String846CG-AddressAddress847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdUTF8String852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped			Ŭ	[0]
845SDP-Media-DescriptionUTF8String846CG-AddressAddress847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				†
846CG-AddressAddress847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				†
847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped			Ŭ	†
848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				†
849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				†
850         Application-Server-Information         Grouped           851         Trunk-Group-Id         Grouped           852         Incoming-Trunk-Group-Id         UTF8String           853         Outgoing-Trunk-Group-Id         UTF8String           854         Bearer-Service         OctetString           855         Service-Id         UTF8String           856         Associated-URI         UTF8String           857         Charged-Party         UTF8String           858         PoC-Controlling-Address         UTF8String           859         PoC-Group-Name         UTF8String           860         Cause         Grouped				+
851         Trunk-Group-Id         Grouped           852         Incoming-Trunk-Group-Id         UTF8String           853         Outgoing-Trunk-Group-Id         UTF8String           854         Bearer-Service         OctetString           855         Service-Id         UTF8String           856         Associated-URI         UTF8String           857         Charged-Party         UTF8String           858         PoC-Controlling-Address         UTF8String           859         PoC-Group-Name         UTF8String           860         Cause         Grouped				†
852 Incoming-Trunk-Group-Id         UTF8String           853 Outgoing-Trunk-Group-Id         UTF8String           854 Bearer-Service         OctetString           855 Service-Id         UTF8String           856 Associated-URI         UTF8String           857 Charged-Party         UTF8String           858 PoC-Controlling-Address         UTF8String           859 PoC-Group-Name         UTF8String           860 Cause         Grouped				+
853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				+
854         Bearer-Service         OctetString           855         Service-Id         UTF8String           856         Associated-URI         UTF8String           857         Charged-Party         UTF8String           858         PoC-Controlling-Address         UTF8String           859         PoC-Group-Name         UTF8String           860         Cause         Grouped				+
855         Service-Id         UTF8String           856         Associated-URI         UTF8String           857         Charged-Party         UTF8String           858         PoC-Controlling-Address         UTF8String           859         PoC-Group-Name         UTF8String           860         Cause         Grouped				+
856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				+
857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				4
858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				4
859 PoC-Group-Name UTF8String 860 Cause Grouped				4
860 Cause Grouped				4
				4
861   Cause-Code   Integer32				4
	861	Cause-Code	Integer32	

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	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	
869	Volume-Quota-Threshold	Unsigned32	
	Trigger-Type	Enumerated	
871	Quota-Holding-Time	Unsigned32	
872	Reporting-Reason	Enumerated	
873	Service-Information	Grouped	
874	PS-Information	Grouped	
875	Reserved	-	
876	IMS-Information	Grouped	
877	MMS-Information	Grouped	
878	LCS-Information	Grouped	
	PoC-Information	Grouped	
	MBMS-Information	Grouped	·
	Quota-Consumption-Time	Unsigned32	
	Media-Initiator-Flag	Enumerated	
	PoC-Server-Role	Enumerated	
	PoC-Session-Type	Enumerated	
	Number-Of-Participants	Unsigned32	
	Originator-Address	Grouped	
	Participants-Involved	UTF8String	
	Expires	Unsigned32	·
	Message-Body	Grouped	·
	Reserved	Grouped	
		-	
	Reserved	-	
	Address-Data	UTF8String	
	Address-Domain	Grouped	
899	Address-Type	Enumerated	
	l		
	TMGI	OctectString	
	Required-MBMS-Bearer-Capabilities	UTF8String	
	MBMS-StartStop-Indication	Enumerated	
	MBMS-Service-Area	OctectString	
	MBMS-Session-Duration	Unsigned32	,
	Alternative-APN	UTF8String	
	MBMS-Service-Type	Enumerated	
	MBMS-2G-3G-Indicator	Enumerated	
	MBMS-Session-Identity	OctetString	
909		UTF8String	
910	Additional-MBMS-Trace-Info	OctetString	
911	MBMS-Time-To-Data-Transfer	Unsigned32	
912	MBMS-Session-Identity-Repetition-Number	Unsigned32	29.061
	MBMS-Required-QoS	UTF8String	[13]
	MBMS-Counting-Information	Enumerated	
	MBMS-User-Data-Mode-Indication	Enumerated	
	MBMS-GGSN-Address	UTF8String	
	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	
J∠3	INDINIO-GAA-OOIALIE AO-WOOLE22	Octeroung	

926 MBMS-BMSC-SSM-UDP-Port	OctetSt	ring	
927 MBMS-GW-UDP-Port	OctetSt	ring	
928 MBMS-GW-UDP-Port-Indicator	Enumer	rated	
929 MBMS-Data-Transfer-Start	Unsigne	ed64	
930 MBMS-Data-Transfer-Stop	Unsigne	ed64	
931 MBMS-Flags	Unsigne	ed32	
932 Restart-Counter	Unsigne	ed32	
933 Diagnostic-Info	Unsigne	ed32	
934 MBMS-Cell-List	OctetSt		
Note: The AVP codes from 935 to 999 are reserved for TS 29.061			
1000 Bearer-Usage	Enumerated		
1001 Charging-Rule-Install	Grouped		
1002 Charging-Rule-Remove	Grouped		
1003 Charging-Rule-Definition	Grouped		
1004 Charging-Rule-Base-Name	UTF8String		
1005 Charging-Rule-Name	OctetString		
1006 Event-Trigger	Enumerated		
1007 Metering-Method	Enumerated		
1007 Meterring-Wetriod	Enumerated		
1009 Online	Enumerated		
1010 Precedence	Unsigned32		
1011 Reporting-Level	Enumerated		
1012 TFT-Filter	IPFilterRule		
1013 TFT-Packet-Filter-Information	Grouped		
1014 ToS-Traffic-Class	OctetString		
1016 QoS-Information	Grouped		
1018 Charging-Rule-Report	Grouped		
1019 PCC-Rule-Status	Enumerated		
1020 Bearer-Identifier	OctetString		
1021 Bearer-Operation	Enumerated		
1022 Access-Network-Charging-Identifier-Gx	Grouped		
1023 Bearer-Control-Mode	Enumerated		
1024 Network-Request-Support	Enumerated		
1025 Guaranteed-Bitrate-DL	Unsigned32		
1026 Guaranteed-Bitrate-UL	Unsigned32		
1027 IP-CAN-Type	Enumerated		
1028 QoS-Class-Identifier	Enumerated		
1029 QoS-Negotiation	Enumerated	29.212 [19]	
1030 QoS-Upgrade	Enumerated		
1031 Rule-Failure-Code	Enumerated		
1032 RAT-Type	Enumerated		
1033 Event-Report-Indication	Grouped		
1034 Allocation-Retention-Priority	Grouped		
1035 CoA-IP-Address	Address		
1036 Tunnel-Header-Filter	IPFilterRule		
1037 Tunnel-Header-Length	Unsigned32		
1038 Tunnel-Information	Grouped		
1039 CoA-Information	Grouped		
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32		
1041 APN-Aggregate-Max-Bitrate-UL	Unsigned32		
1042 Revalidation-Time	Time		
1043 Rule-Activation-Time	Time		
1044 Rule-DeActivation-Time	Time		
1045 Session-Release-Cause	Enumerated		
1046 Priority-Level	Unsigned32		
1047 Pre-emption-Capability	Enumerated		
1048 Pre-emption-Vulnerability	Enumerated		
1049 Default-EPS-Bearer-QoS	Grouped		
1050 AN-GW-Address	Address		
1051 QoS-Rule-Install	Grouped		
1052 QoS-Rule-Remove	Grouped		
1053 QoS-Rule-Definition	Grouped		
1054 QoS-Rule-Name	OctetString		
1055 QoS-Rule-Report	Grouped		
1056 Security-Parameter-Index	OctetString		
	·		

4057 51   -11	0-4-404	1
1057 Flow-Label	OctetString	
1058 Flow-Information	Grouped IPFilterRule	
1059   Packet-Filter-Content   1060   Packet-Filter-Identifier	OctetString	
1000   Packet-Filter-Information	Grouped	
1062 Packet-Filter-Operation	Enumerated	
1063 Resource-Allocation-Notification	Enumerated	
1064 Session-Linking-Indicator	Enumerated	
1065 PDN-Connection-ID	OctetString	
1066 Monitoring-Key	OctetString	
1067 Usage-Monitoring-Information	Grouped	
1068 Usage-Monitoring-Level	Enumerated	
1069 Usage-Monitoring-Report	Enumerated	
1070 Usage-Monitoring-Support	Enumerated	
1071 CSG-Information-Reporting	Enumerated	
1072 Packet-Filter-Usage	Enumerated	
1073 Charging-Correlation-Indicator	Enumerated	
1074 QoS-Rule-Base-Name	UTF8String	
1075 Routing-Rule-Remove	Grouped	
1076 Routing-Rule-Definition	Grouped	
1077 Routing-Rule-Identifier	OctetString	
1078 Routing-Filter	Grouped	
1079 Routing-IP-Address 1080 Flow-Direction	Address Enumerated	
1080 Flow-Direction 1081 Routing-Rule-Install	Grouped	
1082 Credit-Management-Status	Unsigned32	
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     Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212	Enumerated	
1100 Served-User-Identity	Groupe	
1100 Served-Oser-Identity	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   Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	UTF8String	
1200 Domain-Name	UTF8String	
1200   Domain-Name     1201   Recipient-Address	Grouped	32.299 [5]
1201 Recipient-Address 1202 Submission-Time	Time	JZ.Z33 [J]
1202   Cubiniosion Time	Tillie	

	MM-Content-Type	Grouped	
1204	Type-Number	Enumerated	
	Additional-Type-Information	UTF8String	
	Content-Size	Unsigned32	
1207	Additional-Content-Information	Grouped	
1208	Addressee-Type	Enumerated	
1209	Priority	Enumerated	
1210	Message-ID	UTF8String	
1211	Message-Type	Enumerated	
	Message-Size	Unsigned32	
1213	Message-Class	Grouped	
	Class-Identifier	Enumerated	
	Token-Text	UTF8String	
	Delivery-Report-Requested	Enumerated	
	Adaptations	Enumerated	
	Applic-ID	UTF8String	
	Aux-Applic-Info	UTF8String	
	Content-Class	Enumerated	
	DRM-Content	Enumerated	
	Read-Reply-Report-Requested	Enumerated	
	Reply-Applic-ID	UTF8String	
	File-Repair-Supported	Enumerated	
	MBMS-User-Service-Type	Enumerated	
	Unit-Quota-Threshold	Unsigned32	
	PDP-Address		
	SGSN-Address	Address Address	
	PoC-Session-Id	UTF8String	
	Deferred-Location-Even-Type	UTF8String	
	LCS-APN	UTF8String	
	LCS-Client-Id	Grouped	
	LCS-Client-Dialed-By-MS	UTF8String	
	LCS-Client-External-ID	UTF8String	
	LCS-Client-Name	Grouped	
	LCS-Data-Coding-Scheme	UTF8String	
	LCS-Format-Indicator	Enumerated	
	LCS-Name-String	UTF8String	
	LCS-Requestor-Id	Grouped	
1240	LCS-Requestor-Id-String	UTF8String	
	LCS-Client-Type	Enumerated	
	Location-Estimate	OctetString	
1243	Location-Estimate-Type	Enumerated	
	Location-Type	Grouped	
1245	Positioning-Data	UTF8String	
1246	Reserved	-	
1247	PDP-Context-Type	Enumerated	
	MMBox-Storage-Requested	Enumerated	
	Service-Specific-Info	Grouped	
1250	Called-Asserted-Identity	UTF8String	
	Requested-Party-Address	UTF8String	
	PoC-User-Role	Grouped	
	PoC-User-Role-IDs	UTF8String	
	PoC-User-Role-info-Units	Enumerated	
	Talk-Burst-Exchange	Grouped	
	Service-Generic-Information	Grouped	
	Service-Specific-Type	Unsigned32	
	Event-Charging-TimeStamp	Time	
	Participant-Access-Priority	Enumerated	
	Participant-Group	Grouped	
	PoC-Change-Conditions	Enumerated	
	PoC-Change-Time	Time	
	Access-Network-Information	OctetString	
	Trigger	Grouped	
	Trigger  Base-Time-Interval		
		Unsigned32	
	Envelope	Grouped	
1267	Envelope-End-Time	Time	

1268   Envelope-Reporting			
1270   Time-Quota-Nyechanism   Grouped   1271   Time-Quota-Type   Enumerated   1272   Early-Media-Description   Grouped   1273   SDP-TimeStamps   Grouped   1274   SDP-Offer-TimeStamps   Time   1275   SDP-Answer-Timestamp   Time   1276   SDP-Answer-Timestamp   Time   1276   AF-Correlation-Information   Grouped   1277   PGC-Session-Initiation-type   Enumerated   1278   Office-Charging   Grouped   1279   User-Participating-Type   Enumerated   1279   User-Participating-Type   Enumerated   1280   Alternate-Charged-Party-Address   UTFSString   1281   MS-Communication-Service-Identifier   UTFSString   1282   Number-Of-Received-Talk-Bursts   Unsigned32   1283   Number-Of-Received-Talk-Burst   Unsigned32   1285   Number-Of-Talk-Burst-Volume   Unsigned32   1286   Talk-Burst-Time   Unsigned32   1287   Talk-Burst-Volume   Unsigned32   1287   Talk-Burst-Volume   Unsigned32   1287   Talk-Burst-Volume   Unsigned32   1287   Talk-Burst-Time   Unsigned32   1287   Talk-Burst-Time   Unsigned32   1287   Talk-Burst-Time   Unsigned32   1287   Talk-Burst-Time   Unsigned32   1300   PCS-Radio-Technology   Enumerated   1301   RAN-End-Time   Time   1302   RAN-Socondary-RAT-Usage-Report   Grouped   1303   RAN-Start-Time   Time   1303   RAN-Start-Time   Time   1303   RAN-Start-Time   Unsigned32   1304   Secondary-RAT-Usage-Report   Grouped   1307   RAN-End-Time   Unsigned32   1318   Talk-Underfiler   OctetString   1309   PCS-Radio-Technology   Unsigned32   1319   API-Direction   UTFSString   1310   API-Direction   Unsigned32   1311   API-Direction   Unsigned32   1312   API-Invection-Timestamp   Time   1313   API-Result-Code   Unsigned32   1314   API-Size   Unsigned32   1315   API-Network-Service-Node   Enumerated   1317   API-Direction   Grouped   1318   TLRI   Unsigned32   1319   API-Direction   Unsigned32   1319   API-Direction   Unsigned32   1310   API-Direction   Unsigned32   1310   API-Direction   Unsigned32   1311   API-Direction   Unsigned32   1312   API-Direction   Unsigned32   1313   API-Result-Code   Unsigned32   1314   API-Sign	1268 Envelope-Reporting	Enumerated	
1271   Time-Quota-Type			
1272   Early-Media-Description   Grouped			
1273   SDP-TimeStamps   Grouped   1274   SDP-Answer-Timestamp   Time   1275   SDP-Answer-Timestamp   Time   1276   AF-Correlation-Information   Grouped   1277   PoC-Session-Initiation-type   Enumerated   1278   Office-Charging   Grouped   1279   Ger-Participating-Type   Enumerated   1279   User-Participating-Type   Enumerated   1280   Alternate-Charged-Farty-Address   UTF8String   1281   IMS-Communication-Service-Identifier   UTF8String   1282   IMS-Communication-Service-Identifier   UTF8String   1283   Number-Of-Take-Bursts   Unsigned32   1284   Received-Talk-Burst-Time   Unsigned32   1285   Received-Talk-Burst-Volume   Unsigned32   1286   Received-Talk-Burst-Volume   Unsigned32   1286   Received-Talk-Burst-Volume   Unsigned32   1287   Talk-Burst-Time   Unsigned32   1287   Talk-Burst-Volume   Unsigned32   1288   Talk-Burst-Time   Unsigned32   1287   Talk-Burst-Volume   Unsigned32   1288   Received-Talk-Burst-Time   Unsigned32   1298   Received-Talk-Burst-Time   Unsigned32   1298   Received-Talk-Burst-Time   Unsigned32   1298   Talk-Burst-Volume   Unsigned32   1298   Talk-Burst-Volume   Unsigned32   1298   Talk-Burst-Volume   Unsigned32   1309   PCG-Radio-Fechnology   Enumerated   1301   RAN-End-Time   Time   1302   RAN-Secondary-RAT-Usage-Report   Grouped   1303   RAN-Start-Time   Time   1304   Secondary-RAT-Type   Octet/String   1305   WUAN-Operator-Id   Grouped   1306   WUAN-Operator-Id   UTF8String   1306   WUAN-Operator-Id   UTF8String   1308   WUAN-Operator-Id   Grouped   1311   API-Identifier   Cotte/String   1312   API-Invocation-Timestamp   Time   1313   API-Result-Code   Unsigned32   1314   API-Size   Unsigned32   1315   API-Network-Service-Node   Enumerated   1316   Enumerated   Grouped   1317   SCEF-Address   Address   Unsigned32   1318   TIR   Unsigned32   1319   TIR   Unsigned32   1320   API-Oo-C-Request-Type   Enumerated   1310   API-Oo-C-Request-Type   Enumerated   1311   API-Size   Unsigned32   1312   API-Invocation-Timestam   UTF8String   1400   UA-Flags   Unsigned32   1411   AUH-Hill-Califo			
1274   SDP-Offer-Timestamp   Time   1276   SDP-Answer-Timestamp   Time   1276   AF-Correlation-Information   Grouped   Enumerated   1278   Office-Session-Inditation-type   Enumerated   1279   Cosession-Inditation-type   Enumerated   1279   User-Participating-Type   User-Partici			
1275   SDP-Answer-Timestamp			
1276   AF-Correlation-Information   Grouped			
1277   PocSession-Initiation-type			
1278   Offline-Charging   Grouped			
1279   User-Participating-Type			
1280   Alternate-Charged-Party-Address			
1281   IMS-Communication-Service-Identifier			
1282   Number-Of-Received-Talk-Bursts		· ·	
1283   Number-Ot-Talk-Bursts		<u> </u>	
1284   Received-Talk-Burst-Volume			
1285   Received-Talk-Burst-Volume			
1286   Talk-Burst-Volume			
1287 Talk-Burst-Volume			
Note: The AVP codes from 1289 to 1299 are reserved for TS 32.299			
Note: The AVP codes from 1289 to 1299 are reserved for TS 32.299			
1300   RAN-End-Time		UTF8String	
1301   RAN-End-Time		Гругаалабан	
302   RAN-Secondary-RAT-Usage-Report			
1303   RAN-Start-Time			
1304   Secondary-RAT-Type			
1306   Civic-Address-Information			
1306   WLAN-Operator-Id		· ·	
1307   WLAN-Operator-Name			
1308   WLAN-PLMN-Id			
1309 API-Content			
1310   API-Direction			
1311   API-Identifier			
1312   API-Invocation-Timestamp			
1313   API-Result-Code		· ·	32.299 [5]
1314   API-Size			
1315   API-Network-Service-Node			
1316 Exposure-Function-API-Information         Grouped           1317 SCEF-Address         Address           1318 TLTRI         Unsigned32           1320 3GPP-OC-Specific-Reduction         Grouped           1321 3GPP-OC-Rating-Group         Unsigned32           1322 3GPP-OC-Request-Type         Enumerated           1323 VoLTE-Information         Grouped           Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229.           1400 Subscription-Data         Grouped           1401 Terminal-Information         Grouped           1402 IMEI         UTF8String           1404 QoS-Subscribed         UTF8String           1405 ULR-Flags         Unsigned32           1406 ULA-Flags         Unsigned32           1407 Visited PLMN Id         OctetString           1408 Requested-EUTRAN-Authentication-Info         Grouped           1410 Number-Of-Requested-Vectors         Unsigned32           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			
1317         SCEF-Address         Address           1318         TLTRI         Unsigned32           1319         TTRI         Unsigned32           1320         3GPP-OC-Specific-Reduction         Grouped           1321         3GPP-OC-Rating-Group         Unsigned32           1322         3GPP-OC-Request-Type         Enumerated           1323         VoLTE-Information         Grouped           Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229.         Grouped           1401         Terminal-Information         Grouped           1402         IME         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           1410         Number-Of-Requested-Vectors         Unsigned32           1411         Re-Synchronization-Info         OctetString           1412         Immediate-Response-Preferred         Unsigned32           1413         Authentication-In	1316 Exposure-Function-API-Information		
1318   TLTRI			
1319   TTRI			
1320         3GPP-OC-Specific-Reduction         Grouped           1321         3GPP-OC-Rating-Group         Unsigned32           1322         3GPP-OC-Request-Type         Enumerated           1323         VoLTE-Information         Grouped           Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229.         Grouped           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           1410         Number-Of-Requested-Vectors         Unsigned32           1411         Re-Synchronization-Info         OctetString           1412         Immediate-Response-Preferred         Unsigned32           1411         E-UTRAN-Vector         Grouped           1414         E-UTRAN-Vector         Grouped           1416 <t< td=""><td></td><td></td><td></td></t<>			
1321 3GPP-OC-Rating-Group         Unsigned32           1322 3GPP-OC-Request-Type         Enumerated           1323 VoLTE-Information         Grouped           Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229.           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           1410 Number-Of-Requested-Vectors         Unsigned32           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			
1322 3GPP-OC-Request-Type			
1323   VoLTE-Information   Grouped			
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229.  1400   Subscription-Data   Grouped   1401   Terminal-Information   Grouped   1402   IMEI   UTF8String   1403   Software-Version   UTF8String   1404   QoS-Subscribed   UTF8String   1405   ULR-Flags   Unsigned32   1406   ULA-Flags   Unsigned32   1407   Visited PLMN Id   OctetString   1408   Requested-EUTRAN-Authentication-Info   Grouped   1409   Requested-UTRAN- GERAN-Authentication-Info   Grouped   1410   Number-Of-Requested-Vectors   Unsigned32   1411   Re-Synchronization-Info   OctetString   1412   Immediate-Response-Preferred   Unsigned32   1413   Authentication-Info   Grouped   1414   E-UTRAN-Vector   Grouped   1415   UTRAN-Vector   Grouped   1416   GERAN-Vector   Grouped   1416   GERAN-Vector   Grouped   1416   GERAN-Vector   Grouped   1417   Grouped   Grouped   1418   GERAN-Vector   Grouped   1419   Geran-Vector   Grouped   1410   GERAN-Vector   Grouped   1411   GERAN-Vector   Grouped   1412   GERAN-Vector   Grouped   1414   GERAN-Vector   Grouped   1415   GERAN-Vector   Grouped   1416   GERAN-Vector   Grouped   1417   GERAN-Vector   Grouped   1418   GERAN-Vector   Grouped   1419   GERAN-Vector   Grouped   1410   GERAN-Vector   Grouped   1411   GERAN-Vector   Grouped			
1400Subscription-DataGrouped1401Terminal-InformationGrouped1402IMEIUTF8String1403Software-VersionUTF8String1404QoS-SubscribedUTF8String1405ULR-FlagsUnsigned321406ULA-FlagsUnsigned321407Visited PLMN IdOctetString1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped			
1401Terminal-InformationGrouped1402IMEIUTF8String1403Software-VersionUTF8String1404QoS-SubscribedUTF8String1405ULR-FlagsUnsigned321406ULA-FlagsUnsigned321407Visited PLMN IdOctetString1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped		Grouped	
1402 IMEIUTF8String1403 Software-VersionUTF8String1404 QoS-SubscribedUTF8String1405 ULR-FlagsUnsigned321406 ULA-FlagsUnsigned321407 Visited PLMN IdOctetString1408 Requested-EUTRAN-Authentication-InfoGrouped1409 Requested-UTRAN- GERAN-Authentication-InfoGrouped1410 Number-Of-Requested-VectorsUnsigned321411 Re-Synchronization-InfoOctetString1412 Immediate-Response-PreferredUnsigned321413 Authentication-InfoGrouped1414 E-UTRAN-VectorGrouped1415 UTRAN-VectorGrouped1416 GERAN-VectorGrouped			
1403Software-VersionUTF8String1404QoS-SubscribedUTF8String1405ULR-FlagsUnsigned321406ULA-FlagsUnsigned321407Visited PLMN IdOctetString1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped			
1404QoS-SubscribedUTF8String1405ULR-FlagsUnsigned321406ULA-FlagsUnsigned321407Visited PLMN IdOctetString1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped			
1405ULR-FlagsUnsigned321406ULA-FlagsUnsigned321407Visited PLMN IdOctetString1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped			
1406ULA-FlagsUnsigned321407Visited PLMN IdOctetString1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped			
1407Visited PLMN IdOctetString1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped			
1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped			
1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped			20 272 [24]
1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped		Grouped	29.212 [21]
1411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped	1410 Number-Of-Requested-Vectors	Unsigned32	
1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped			
1413 Authentication-InfoGrouped1414 E-UTRAN-VectorGrouped1415 UTRAN-VectorGrouped1416 GERAN-VectorGrouped		Unsigned32	
1415 UTRAN-VectorGrouped1416 GERAN-VectorGrouped	1413 Authentication-Info		
1416 GERAN-Vector Grouped			
1417 Network-Access-Mode Enumerated		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	
	Context-Identifier	Unsigned32	
	Subscriber-Status	Enumerated	
	Operator-Determined-Barring	Unsigned32	
	Access-Restriction-Data	Unsigned32	
	APN-OI-Replacement	UTF8String	
	All-APN-Configurations-Included-Indicator	Enumerated	
	APN-Configuration-Profile	Grouped	
	APN-Configuration	Grouped	
	EPS-Subscribed-QoS-Profile	Grouped	
	VPLMN-Dynamic-Address-Allowed	Enumerated	
	STN-SR	OctetString	
	Alert-Reason	Enumerated	
	AMBR	Grouped	
	CSG-Subscription-Data	Grouped	
1437	CSG-Id	Unsigned32	
	PDN-GW-Allocation-Type	Enumerated	
	Expiration-Date	Time	
	RAT-Frequency-Selection-Priority-ID	Unsigned32	
	IDA-Flags	Unsigned32	
	PUA-Flags	Unsigned32	
	NOR-Flags	Unsigned32	
	User-Id	UTF8String	
	Equipment-Status	Enumerated	
	Regional-Subscription-Zone-Code	OctetString	
	RAND	OctetString	
	XRES	OctetString	
	AUTN		
	KASME	OctetString	
	Reserved	OctetString	
		- Address	
1452	Trace-Collection-Entity		
	SRES	OctetString	
		OctetString	
	Reserved PDN-Type	Enumerated	
	Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated	
	Trace-Data Trace-Reference	Grouped	
		OctetString	
	Reserved	-	
	Reserved Trace Depth	- Faumorated	
	Trace-Depth Trace NF Type Liet	Enumerated	
	Trace-NE-Type-List	OctetString	
	Trace-Interface-List	OctetString	
	Trace-Event-List	OctetString	
	OMC-Id	OctetString	
	GPRS-Subscription-Data	Grouped	
	Complete-Data-List-Included-Indicator	Enumerated	
	PDP-Context	Grouped	
	PDP-Type	OctetString	
	3GPP2-MEID	OctetString	
	Specific-APN-Info	Grouped	
	LCS-Info	Grouped	
	GMLC-Number	OctetString	
	LCS-PrivacyException	Grouped	
	SS-Code	OctetString	
	SS-Status	OctetString	
	Notification-To-UE-User	Enumerated	
	External-Client	Grouped	
	1011 (11 (1)	0 - 1 - 1 0 1 - 1	
	Client-Identity	OctetString	
1481	GMLC-Restriction PLMN-Client	Enumerated Enumerated	

1483 Service-Type	Grouped		
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		
1439   0561-5tate	Enumerateu		
4500 Non 2CDD Hoor Data	C		
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	-	29.273 [20]	
1515 Reserved	-		
1516 Full-Network-Name	OctetString		
1517 Short-Network-Name	OctetString		
1518 AAA-Failure-Indication	Unsigned32		
1519 Transport-Access-Type	Enumerated		
1520 DER-Flags	Unsigned32		
1521 DEA-Flags	Unsigned32		
1522 RAR-Flags	Unsigned32		
1523 DER-S6b-Flags	Unsigned32		
1524 SSID	UTF8String		
1525 HESSID	UTF8String		
1526 Access-Network-Info	Grouped		
1527 TWAN-Connection-Mode	Unsigned32		
1528 TWAN-Connectivity-Parameters	Grouped		
1529 Connectivity-Flags	Unsigned32		
1530 TWAN-PCO	OctetSt		
1531 TWAG-CP-Address	Addre		
1532 TWAG-UP-Address	UTF8S		
1533 TWAN-S2a-Failure-Cause	Unsigne		
1534 SM-Back-Off-Timer	Unsigne		
1535 WLCP-Key	OctetSt		
318 3GPP-AAA-Server-Name	Diameterl		
1536 Origination-Time-Stamp	Unsigne		
1537 Maximum-Wait-Time	Unsigne		
1538 Emergency-Services	Unsigne		
1539 AAR-Flags	Unsigne		
1540 IMEI-Check-In-VPLMN-Result	Unsigne		
1541 ERP-Authorization	Unsigne	ea32	
Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.27			
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3	3GPP TS 29.234 and is	now defined in 30	SPP TS
29.273 from Rel-12.	<b>T</b>		
1600 MME-Location-Information	Group	ed	

1901   SSSN-Location-information	ACOA COON Location Information	0	<del>                                     </del>
1903   Tracking-Area-Identity	1601 SGSN-Location-Information	Grouped	1
1906   Cell-Global-Identity			1
1805   Routing-Area-Identity			†
1606   Location-Area-Identity   OctelString   1607   Service-Area-Identity   OctelString   1608   Geographical-Information   OctelString   1609   Geodetic-Information   OctelString   1610   Current-Location-Retrieved   Enumerated   1611   Age-Of-Location-Information   Unsigned32   1612   Active-APN   Grouped   1613   SIPTO-Dermission   Enumerated   1614   Repro-Diagnostic   Enumerated   1614   Repro-Diagnostic   Enumerated   1615   LE-SRVC-Capability   Enumerated   1616   RPS-Priority   Unsigned32   1616   Repro-Diagnostic   Enumerated   1616   RPS-Priority   Unsigned32   1617   VPLIM-LIPA-Allowed   Enumerated   1618   LIPA-Permission   Enumerated   1618   LIPA-Permission   Enumerated   1618   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32   1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32   1622   Ext-PDP-Type   OctelString   1622   Ext-PDP-Type   OctelString   1622   Ext-PDP-Type   OctelString   1623   Ext-PDP-Type   OctelString   1623   Ios-Type-Address   Address   Grouped   1624   Area-Scope   Grouped   1625   List-Orthquation   Grouped   1624   Area-Scope   Grouped   1625   List-Orthquation   Grouped   1625   List-Orthquation   Grouped   1626   Enumerated   1626   Enumerated   1626   Enumerated   1626   Enumerated   1626   Enumerated   1626   Enumerated   1627   Report-Interval   Enumerated   1628   Event-TimesholdRSRP   Unsigned32   1633   Logging-Interval   Enumerated   1633   Event-TimesholdRSRP   Unsigned32   1633   Logging-Unston   Enumerated   1638   Event-TimesholdRSRP   Unsigned32   1633   Logging-Unston   Enumerated   1638   Event-TimesholdRSRP   Unsigned32   1639   UVR-Plags   Unsi			1
1608   Geographical-Information			1
1609 Geodetic-Information	1607 Service-Area-Identity		
1610   Current-Location-Information   Unsigned32   1612   Active-APN   Grouped   1613   SIPTO-Permission   Enumerated   1614   Error-Diagnostic   Enumerated   1614   Error-Diagnostic   Enumerated   1615   UE-SRVCC-Capability   Enumerated   1616   MPS-Priority   Unsigned32   1617   YPLMN-LIPA-Allowed   Enumerated   1618   URS-Priority   Unsigned32   1619   Unsigned32   Unsigned32   1619   Unsigned32   Unsigned32   1619   Unsigned32   Unsigned32   1620   Ext.PDP-Type   OctetString   1621   Ext.PDP-Address   Address   1622   MDT-Onfiguration   Grouped   1623   Job-Type   Enumerated   1624   Area-Scope   Grouped   1625   Ust.Of-Measurements   Unsigned32   1626   Report-Interval   Enumerated   1629   Event-ThresholdRSRP   Unsigned32   1627   Report-Interval   Enumerated   1628   Report-Interval   Enumerated   1629   Event-ThresholdRSRC   Unsigned32   1629   Event-ThresholdRSRC   Unsigned32   1631   Logging-Interval   Enumerated   1632   Event-ThresholdRSRC   Unsigned32   1631   Logging-Interval   Enumerated   1632   Event-ThresholdRSRC   Unsigned32   1633   Event-ThresholdRSRC   Unsigned32   1634   MDT-User-Consent   Enumerated   1632   Event-ThresholdRSRC   Unsigned32   1633   PUR-Flags   Unsigned32   1634   MDT-User-Consent   Enumerated   1635   PUR-Flags   Unsigned32   1636   Unsigned32   Unsigned32   1637   Fquiratent-PUMN-List   Grouped   1638   CUR-Flags   Unsigned32   1640   UVA-Flags   Unsigned32   1650   Water-Time-Poine   Grouped   1641   PURN-CGS-Subscription-Data   Grouped   1642   City   Competed   1643   MS-Register-Request   Enumerated   1644   Reserved   Enumerated   1655   GMLC-Name   DiameterIdentity   1656   Measurement-Period-LTE   Enumerated   1657   GMLC-Name   DiameterIdentity   1658   Measurement-Period-LTE   Enumerated   1659   Measurement-Period-LTE   Enumerated   1650   Measurement-Period-LTE   Enumerated   1651   Collection-Period-RMM-UTS   Enumerated   1652   Event-Threshold-Event-IT   Enumerated   1653   MC-Collection-Period-RMM-UTS   Enumerated   1654   Subscription-Data   Enumerated			1
1611   Age-OPL ocation-Information		· · · · · · · · · · · · · · · · · · ·	<u> </u>
1612 Active-APN			
1613   SIPTO-Permission			1
Enumerated			1
1615   LE-SRVCC-Capability			1
1616   MPS-Priority			1
1617   VPLMN-LIPA-Allowed			†
1619   Subscribed-Periodic-RAU-TAU-Timer			1
1620   Ext-PDP-Type			1
1621 Ext-PDP-Address	1619 Subscribed-Periodic-RAU-TAU-Timer	Unsigned32	Ī
1623   MDT-Configuration   Grouped			
1623   Job-Type			1
1624   Area-Scope   Grouped			1
1625   List-Of-Measurements			1
Report-Interval			4
Enumerated   Enumerated   Enumerated			1
1628   Report-Amount			1
1629   Event-ThresholdRSRP			1
1630   Event-ThresholdRSRQ			1
1631   Logging-Interval			†
1632   Logging-Duration			†
1633   Relay-Node-Indicator			
1634   MD1-User-Consent		Enumerated	-
1636   Subscribed-VSRVCC	1634 MDT-User-Consent	Enumerated	[21]
Equivalent-PLMN-List   Grouped     1638   CLR-Flags   Unsigned32     1639   UVR-Flags   Unsigned32     1640   UVR-Flags   Unsigned32     1641   VPLMN-CSG-Subscription-Data   Grouped     1642   Time-Zone   UTF8String     1643   A-MSISDN   OcteString     1644   Reserved       1645   MME-Number-for-MT-SMS   OcteString     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-Realm   DiameterIdentity     1653   GMLC-Realm   DiameterIdentity     1654   Subscription-Data-Flags   Unsigned32     1655   Measurement-Period-LTE   Enumerated     1656   Measurement-Period-RRM-LTE   Enumerated     1657   Collection-Period-RRM-UMTS   Enumerated     1658   Ossitioning-Method   OctelString     1669   Ossitioning-Method   OctelString     1661   Event-Threshold-Event-11   Integer32     1662   Event-Threshold-Event-11   Integer32     1663   Resorvation-Priority   Unsigned32     1664   SGs-MME-Identity   UTF8String     1664   SGs-MME-Identity   UTF8String     1665   Ossitioning-Priority   Unsigned32     1666   SGs-MME-Identity   UTF8String     1667   Collection-Priority   UTF8String     1668   Reserved   Octempt   Octempt     1669   Ossitioning-Priority   UTF8String     1660   Ossitioning-Priority   UTF8String     1661   Unsigned32     1662   Reserved   Octempt   Octempt     1663   Reserved   Octempt   Octempt     1664   Reserved   Octempt   Octempt     1665   Ossitioning-Priority   UTF8String     1666   Reserved   Octempt   Octempt     1667   Collection-Priority   UTF8String     1668   Reserved   Octempt   Octempt     1669   Ossitioning-Priority   UTF8String     1660   Ossitioning-Priority   UTF8String     1661   Ossitioning-Priority   UTF8String     1662   Reserved   Octempt   Octempt     1663   Reserved   Octempt   Octempt     1664   Reserved   Octempt   Octempt     1665   Ossitioning-Priority   UTF8String     1666   Reserved   Octempt   Octempt     1666   R			]
1638   CLR-Flags			1
1639 UVR-Flags			
1640 UVA-Flags			<u> </u>
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-LTE   Enumerated     1659 Positioning-Method   OctetString     1660 Measurement-Quantity   OctetString     1661 Event-Threshold-Event-11   Integer32     1662 Restoration-Priority   Unsigned32     1664 SGs-MME-Identity   UTF8String     1664 SGs-MME-Identity   UTF8String     1665 Uniform-Priority   Unsigned32     1666 SGs-MME-Identity   UTF8String     1667 Vertical A-Vision   Vision     1668 Collection-Priority   Unsigned32     1669 Uniform-Priority   Unsigned32     1669 Uniform-Priority   UTF8String     1660 Uniform-Priority   UTF8String     1661 Uniform-Priority   UTF8String     1662 Uniform-Priority   UTF8String     1664 Uniform-Priority   UTF8String     1665 Uniform-Priority   UTF8String     1666 Uniform-Priority   UTF8String     1667 Uniform-Priority   UTF8String     1668 Uniform-Priority   UTF8String     1669 Uniform-Priority   UTF8String     1660 Uniform-Priority   UTF8String     1661 Uniform-Priority   UTF8String     1662 Uniform-Priority   UTF8String     1664 Uniform-Priority   UTF8String     1665 Uniform-Priority   UTF8String     1666 Uniform-Priority   UTF8String     1667 Uniform-Priority   Uniform-Priority   UTF8String     1668 Uniform-Priority   UTF8String     1669 Uniform-Priority   UTF8String     1660 Uniform-Priority   Uniform-Priority   UTF8String     1661 Uniform-Priority   UTF8String     1662 Uniform-Priority   UTF8String     1663 Uniform-Priority			1
Time-Zone			1
1643 A-MSISDN			1
1644   Reserved   -			1
1645MME-Number-for-MT-SMSOctetString1646Reserved-1647Reserved-1648SMS-Register-RequestEnumerated1649Local-Time-ZoneGrouped1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity1654Subscription-Data-FlagsUnsigned321655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String		-	†
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		OctetString	†
1648SMS-Register-RequestEnumerated1649Local-Time-ZoneGrouped1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity1654Subscription-Data-FlagsUnsigned321655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String		-	1
1649 Local-Time-ZoneGrouped1650 Daylight-Saving-TimeEnumerated1651 GMLC-InfoGrouped1652 GMLC-NameDiameterIdentity1653 GMLC-RealmDiameterIdentity1654 Subscription-Data-FlagsUnsigned321655 Measurement-Period-LTEEnumerated1656 Measurement-Period-UMTSEnumerated1657 Collection-Period-RRM-LTEEnumerated1658 Collection-Period-RRM-UMTSEnumerated1659 Positioning-MethodOctetString1660 Measurement-QuantityOctetString1661 Event-Threshold-Event-1FInteger321662 Event-Threshold-Event-1IInteger321663 Restoration-PriorityUnsigned321664 SGs-MME-IdentityUTF8String	1647 Reserved	-	Ī
1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity1654Subscription-Data-FlagsUnsigned321655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String		Enumerated	
1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity1654Subscription-Data-FlagsUnsigned321655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			<u> </u>
1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity1654Subscription-Data-FlagsUnsigned321655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			1
1653GMLC-RealmDiameterIdentity1654Subscription-Data-FlagsUnsigned321655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			1
1654Subscription-Data-FlagsUnsigned321655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			1
1655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			1
1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			1
1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			+
1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String		1	†
1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			†
1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			†
1661 Event-Threshold-Event-1FInteger321662 Event-Threshold-Event-1IInteger321663 Restoration-PriorityUnsigned321664 SGs-MME-IdentityUTF8String			†
1662 Event-Threshold-Event-11Integer321663 Restoration-PriorityUnsigned321664 SGs-MME-IdentityUTF8String			†
1663 Restoration-PriorityUnsigned321664 SGs-MME-IdentityUTF8String			†
1664 SGs-MME-Identity UTF8String			1
1665 SIPTO-Local-Network-Permission Unsigned32	1664 SGs-MME-Identity		
	1665 SIPTO-Local-Network-Permission	Unsigned32	

	<del>_</del>	
1666 Coupled-Node-Diameter-ID	DiameterIdentity	<u> </u>
1667 WLAN-offloadability	Grouped	
1668 WLAN-offloadability-EUTRAN	Unsigned32	
1669 WLAN-offloadability-UTRAN	Unsigned32	
1670 Reset-ID	OctetString	<u> </u>
1671 MDT-Allowed-PLMN-Id	OctetString	<u> </u>
1672 Adjacent-PLMNs	Grouped	
1673 Adjacent-Access-Restriction-Data	Grouped	<u>_</u>
1674 DL-Buffering-Suggested-Packet-Count	Integer32	<u> </u>
1675 IMSI-Group-Id	Grouped	<u> </u>
1676 Group-Service-Id	Unsigned32	1
1677 Group-PLMN-Id	OctetString	
1678 Local-Group-Id	OctetString	
1679 AIR-Flags	Unsigned32	
1680 UE-Usage-Type	Unsigned32	
1681 Non-IP-PDN-Type-Indicator	Enumerated	
1682 Non-IP-Data-Delivery-Mechanism	Unsigned32	
1683 Additional-Context-Identifier	Unsigned32	7
1684 SCEF-Realm	DiameterIdentity	7
1685 Subscription-Data-Deletion	Grouped	7
1686 Preferred-Data-Mode	Unsigned32	1
1687 Emergency-Info	Grouped	1
1688 V2X-Subscription-Data	Grouped	1
1689 V2X-Permission	Unsigned32	1
1690 PDN-Connection-Continuity	Unsigned32	7
1691 eDRX-Cycle-Length	Grouped	†
1692 eDRX-Cycle-Length-Value	OctetString	†
1693 UE-PC5-AMBR	Unsigned32	†
1694 MBSFN-Area	Grouped	†
1695 MBSFN-Area-ID	Unsigned32	†
1696 Carrier-Frequency	Unsigned32	†
1697 RDS-Indicator	Enumerated	+
1698 Service-Gap-Time	Unsigned32	+
1699 Aerial-UE-Subscription-Information	Unsigned32	<del> </del>
1700 Broadcast-Location-Assistance-Data-Types	Unsigned64	<del> </del>
1701 Paging-Time-Window	Grouped	<del> </del>
1701 Paging-Time-Window	Unsigned32	+
1703 Paging-Time-Window-Length	OctetString	+
1704 Core-Network-Restrictions	Unsigned32	<del> </del>
1705 eDRX-Related-RAT	Grouped	†
1706 Interworking-5GS-Indicator	Enumerated	+
1700 Interworking-3G3-indicator	Enumerated	+
1707 Ethernet-Pon-Type-Indicator		+
1709 IAB-Operation-Permission	Unsigned32 Enumerated	+
1710 V2X-Subscription-Data-Nr		+
	Grouped	4
1711 UE-PC5-QoS	Grouped	4
1712 PC5-QoS-Flow	Grouped	+
1713 5QI	Integer32	4
1714 PC5-Flow-Bitrates	Grouped	4
1715 Guaranteed-Flow-Bitrates	Integer32	4
1716 Maximum-Flow-Bitrates	Integer32	4
1717 PC5-Range	Integer32	4
1718 PC5-Link-AMBR	Integer32	
Note: The AVP codes from 1719 to 1799 are reserved for TS 29.272.		
2000 SMS-Information	Grouped	4
2001 Data-Coding-Scheme	Integer32	
2002 Destination-Interface	Grouped	
2003 Interface-Id	UTF8String	
2004 Interface-Port	UTF8String	1
2005 Interface-Text	UTF8String	32.299 [5]
2006 Interface-Type	Enumerated	
2007 SM-Message-Type	Enumerated	
2008 Originating-SCCP-Address	Address	
2009 Originator-Interface	Grouped	
2010 Recipient-SCCP-Address	Address	
	· · · · · · · · · · · · · · · · · · ·	

2011   Raply-Path-Requested			1
2013 SM-Protocol-ID			1
2014 SM-Status			1
2015   SM-User-Data-Header	2013 SM-Protocol-ID	OctetString	
2015   SM-User-Data-Header	2014 SM-Status	OctetString	Ī
2016   SMS-Node	2015 SM-User-Data-Header		Ī
2017   SMSC-Address			†
2018   Client-Address   Address   2019   Number-O-Messages-Sent   Unsigned32   2020   Low-Balance-Incation   Enumerated   2021   Remaining-Balance   Grouped   2022   Refund-Information   OctetString   2023   Carrier-Select-Routing-Information   UTF6String   2023   Carrier-Select-Routing-Information   UTF6String   2024   Number-Portability-Routing-Information   UTF6String   2025   Recipient-Info   Grouped   2027   Continuation   UTF6String   2028   Recipient-Info   Grouped   2027   Originator-Received-Address   Grouped   2027   Originator-Received-Address   Grouped   2027   Originator-Received-Address   Grouped   2028   Recipient-Received-Address   Grouped   2029   SM-Service-Type   Enumerated   2030   MMTel-Information   Grouped   2031   MMTel-Information   Grouped   2031   MMTel-Information   Grouped   2031   MMTel-Information   Grouped   2033   Subscriber-Role   Unsigned32   2033   Subscriber-Role   Enumerated   2033   Subscriber-Role   Enumerated   2034   Number-Or-Diversions   Unsigned32   2036   SDPT-Type   Enumerated   2037   Change-Condition   Integer32   2036   SDPT-Type   Enumerated   2037   Change-Condition   Integer32   2038   Change-Condition   Integer32   2038   Change-United   2039   Change-United   2039			†
2019   Number-of-Messages-Sent			+
2020   Low-Balance - Indication			-
			1
2022   Refund-Information			
2023   Carrier-Select-Routing-Information	2021 Remaining-Balance	Grouped	
2023   Carrier-Select-Routing-Information	2022 Refund-Information	OctetString	
2024   Number-Portability-Routing-Information	2023 Carrier-Select-Routing-Information		Ť
2025   PocEvent-Type			†
2026   Recipient-Info			+
2027   Originator-Received-Address   Grouped   2028   Rocipient-Received-Address   Grouped   2029   SM-Service-Type   Enumerated   2030   MMTel-Information   Grouped   2031   MMTel-Isservice-Type   Unsigned32   2032   Service-Mode   Unsigned32   2033   Subscribe-Role   Unsigned32   2034   Sarvice-Mode   Unsigned32   2035   Sasociated-Party-Address   UrseString   2036   Sasociated-Party-Address   UrseString   2036   Sasociated-Party-Address   UrseString   2036   Sasociated-Party-Address   UrseString   2036   Change-Time   Time   2037   Change-Condition   Integer32   2038   Change-Time   Time   2039   Diagnostics   Integer32   2040   Service-Data-Container   Grouped   2041   Start-Time   Time   2043   Time-First-Usage   Time   2043   Time-First-Usage   Time   2044   Time-Last-Usage   Time   2045   Time-Usage   Unsigned32   2046   Traffic-Data-Volumes   Grouped   2047   Serving-Node-Type   Enumerated   2048   Supplementary-Service   Grouped   2049   Participant-Action-Type   Enumerated   2050   PDN-Connection-Charging-ID   Unsigned32   2051   Dynami-Address-Flag   Enumerated   2052   Accumulated-Cost   Grouped   2053   ACC-Cost-Information   Grouped   2054   Acc-Information   Grouped   2055   Acc-Cost-Information   Grouped   2056   Current-Tariff   Grouped   2057   Rext-Tariff   Grouped   2058   Rate-Element   Grouped   2059   Color-Information   Grouped   2050   Carlor-Information   Grouped   2051   Dynami-Address-Flag   Enumerated   2052   Grouped   Grouped   2053   ACC-Call-Formation   Grouped   2054   ACC-Information   Grouped   2055   Grouped   Grouped   2056   Current-Tariff   Grouped   2057   Rate-Element   Grouped   2058   Rate-Element   Grouped   2059   Grouped   Grouped   2050   Current-Tariff   Grouped   2051   Dynami-Address-Flag-Extension   Grouped   2062   Incremental-Cost   Grouped   2063   Grouped   Grouped   2064   Grouped   Grouped   2065   Grouped   Grouped   2066   Grouped   Grouped   2067   SigW-Address   Grouped   Grouped   2068   Current-Tariff   Grouped   2068   Current-Tariff   Grouped			<del> </del>
2028   Recipient-Received-Address   Grouped			
2029 SM-Service-Type			<u> </u>
2031   MMTel-Information	2028 Recipient-Received-Address	Grouped	
2031   MMTel-Information	2029 SM-Service-Type	Enumerated	Ī
Dasigned32			†
Service-Mode			†
Day   December   Dec	<i>7</i> 1		†
Day   December   Dec			1
Data   Sasociated-Party-Address			1
Day			1
Days   Change-Condition   Integer32		UTF8String	1
Days   Change-Condition   Integer32	2036 SDP-Type	Enumerated	1
Diagnostics   Diagnostics   Integer32		Integer32	1
Diagnostics   Integer32   Service-Data-Container   Grouped			†
Service-Data-Container			+
2041   Start-Time			}
2042   Stop-Time			<u> </u>
Deciding			1
2044   Time-Last-Usage	2042 Stop-Time	Time	
2044   Time-Last-Usage	2043 Time-First-Usage	Time	Ī
Description	2044 Time-Last-Usage	Time	1
2046   Traffic-Data-Volumes   Grouped			
Serving-Node-Type			†
2048   Supplementary-Service   Grouped			+
Participant-Action-Type			-
Description			1
Dynamic-Address-Flag			1
Dynamic-Address-Flag	2050 PDN-Connection-Charging-ID	Unsigned32	
2052   Accumulated-Cost   Grouped	2051 Dynamic-Address-Flag		Ī
2053   AoC-Cost-Information   Grouped		Grouped	†
2054 AoC-Information         Grouped           2055 AoC-Request-Type         Enumerated           2056 Current-Tariff         Grouped           2057 Next-Tariff         Grouped           2058 Rate-Element         Grouped           2059 Scale-Factor         Grouped           2060 Tariff-Information         Grouped           2061 Unit-Cost         Grouped           2062 Incremental-Cost         Grouped           2063 Local-Sequence-Number         Unsigned32           2064 Node-Id         UTF8String           2065 SGW-Change         Enumerated           2066 Charging-Characteristic-Selection-Mode         Enumerated           2067 SGW-Address         Address           2068 Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100 reserved         -           2101 Application-Server-ID         UTF8String           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String			†
2055 AoC-Request-Type         Enumerated           2056 Current-Tariff         Grouped           2057 Next-Tariff         Grouped           2058 Rate-Element         Grouped           2059 Scale-Factor         Grouped           2060 Tariff-Information         Grouped           2061 Unit-Cost         Grouped           2062 Incremental-Cost         Grouped           2063 Local-Sequence-Number         Unsigned32           2064 Node-Id         UTF8String           2065 SGW-Change         Enumerated           2066 Charging-Characteristic-Selection-Mode         Enumerated           2067 SGW-Address         Address           2068 Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100 reserved         -           2101 Application-Server-ID         UTF8String           2102 Application-Service-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String			†
2056 Current-Tariff         Grouped           2057 Next-Tariff         Grouped           2058 Rate-Element         Grouped           2059 Scale-Factor         Grouped           2060 Tariff-Information         Grouped           2061 Unit-Cost         Grouped           2062 Incremental-Cost         Grouped           2063 Local-Sequence-Number         Unsigned32           2064 Node-Id         UTF8String           2065 SGW-Change         Enumerated           2066 Charging-Characteristic-Selection-Mode         Enumerated           2067 SGW-Address         Address           2068 Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100 reserved         -           2101 Application-Service-Type         Enumerated           2103 Application-Sesvice-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String			1
2057 Next-Tariff         Grouped           2058 Rate-Element         Grouped           2059 Scale-Factor         Grouped           2060 Tariff-Information         Grouped           2061 Unit-Cost         Grouped           2062 Incremental-Cost         Grouped           2063 Local-Sequence-Number         Unsigned32           2064 Node-Id         UTF8String           2065 SGW-Change         Enumerated           2066 Charging-Characteristic-Selection-Mode         Enumerated           2067 SGW-Address         Address           2068 Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100 reserved         -           2101 Application-Service-Type         Enumerated           2102 Application-Service-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String			1
2058 Rate-Element         Grouped           2059 Scale-Factor         Grouped           2060 Tariff-Information         Grouped           2061 Unit-Cost         Grouped           2062 Incremental-Cost         Grouped           2063 Local-Sequence-Number         Unsigned32           2064 Node-Id         UTF8String           2065 SGW-Change         Enumerated           2066 Charging-Characteristic-Selection-Mode         Enumerated           2067 SGW-Address         Address           2068 Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100 reserved         -           2101 Application-Service-Type         Enumerated           2102 Application-Service-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String			1
2059 Scale-Factor         Grouped           2060 Tariff-Information         Grouped           2061 Unit-Cost         Grouped           2062 Incremental-Cost         Grouped           2063 Local-Sequence-Number         Unsigned32           2064 Node-Id         UTF8String           2065 SGW-Change         Enumerated           2066 Charging-Characteristic-Selection-Mode         Enumerated           2067 SGW-Address         Address           2068 Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100 reserved         -           2101 Application-Server-ID         UTF8String           2102 Application-Service-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String	2057 Next-Tariff	Grouped	1
2059 Scale-Factor         Grouped           2060 Tariff-Information         Grouped           2061 Unit-Cost         Grouped           2062 Incremental-Cost         Grouped           2063 Local-Sequence-Number         Unsigned32           2064 Node-Id         UTF8String           2065 SGW-Change         Enumerated           2066 Charging-Characteristic-Selection-Mode         Enumerated           2067 SGW-Address         Address           2068 Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100 reserved         -           2101 Application-Server-ID         UTF8String           2102 Application-Service-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String	2058 Rate-Element	Grouped	Ī
2060 Tariff-Information         Grouped           2061 Unit-Cost         Grouped           2062 Incremental-Cost         Grouped           2063 Local-Sequence-Number         Unsigned32           2064 Node-Id         UTF8String           2065 SGW-Change         Enumerated           2066 Charging-Characteristic-Selection-Mode         Enumerated           2067 SGW-Address         Address           2068 Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100 reserved         -           2101 Application-Server-ID         UTF8String           2102 Application-Service-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String			1
2061 Unit-Cost         Grouped           2062 Incremental-Cost         Grouped           2063 Local-Sequence-Number         Unsigned32           2064 Node-Id         UTF8String           2065 SGW-Change         Enumerated           2066 Charging-Characteristic-Selection-Mode         Enumerated           2067 SGW-Address         Address           2068 Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100 reserved         -           2101 Application-Server-ID         UTF8String           2102 Application-Service-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String			†
2062 Incremental-Cost         Grouped           2063 Local-Sequence-Number         Unsigned32           2064 Node-Id         UTF8String           2065 SGW-Change         Enumerated           2066 Charging-Characteristic-Selection-Mode         Enumerated           2067 SGW-Address         Address           2068 Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100 reserved         -           2101 Application-Server-ID         UTF8String           2102 Application-Service-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String			†
2063 Local-Sequence-Number         Unsigned32           2064 Node-Id         UTF8String           2065 SGW-Change         Enumerated           2066 Charging-Characteristic-Selection-Mode         Enumerated           2067 SGW-Address         Address           2068 Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100 reserved         -           2101 Application-Server-ID         UTF8String           2102 Application-Service-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String			1
2064 Node-Id         UTF8String           2065 SGW-Change         Enumerated           2066 Charging-Characteristic-Selection-Mode         Enumerated           2067 SGW-Address         Address           2068 Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100 reserved         -           2101 Application-Server-ID         UTF8String           2102 Application-Service-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String			1
2065         SGW-Change         Enumerated           2066         Charging-Characteristic-Selection-Mode         Enumerated           2067         SGW-Address         Address           2068         Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100         reserved         -           2101         Application-Server-ID         UTF8String           2102         Application-Service-Type         Enumerated           2103         Application-Session-ID         Unsigned32           2104         Delivery-Status         UTF8String			1
2066 Charging-Characteristic-Selection-Mode         Enumerated           2067 SGW-Address         Address           2068 Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100 reserved         -           2101 Application-Server-ID         UTF8String           2102 Application-Service-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String		UTF8String	
2066 Charging-Characteristic-Selection-Mode         Enumerated           2067 SGW-Address         Address           2068 Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100 reserved         -           2101 Application-Server-ID         UTF8String           2102 Application-Service-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String	2065 SGW-Change	Enumerated	
2067         SGW-Address         Address           2068         Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100         reserved         -           2101         Application-Server-ID         UTF8String           2102         Application-Service-Type         Enumerated           2103         Application-Session-ID         Unsigned32           2104         Delivery-Status         UTF8String			1
2068         Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100         reserved         -           2101         Application-Server-ID         UTF8String           2102         Application-Service-Type         Enumerated           2103         Application-Session-ID         Unsigned32           2104         Delivery-Status         UTF8String			İ
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.           2100 reserved         -           2101 Application-Server-ID         UTF8String           2102 Application-Service-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String			†
2100 reserved         -           2101 Application-Server-ID         UTF8String           2102 Application-Service-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String		Liidiileiated	l .
2101 Application-Server-IDUTF8String2102 Application-Service-TypeEnumerated2103 Application-Session-IDUnsigned322104 Delivery-StatusUTF8String			П
2102 Application-Service-TypeEnumerated2103 Application-Session-IDUnsigned322104 Delivery-StatusUTF8String		-	1
2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			1
2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String	2102 Application-Service-Type	Enumerated	22 200 [5]
2104 Delivery-Status UTF8String		Unsigned32	<sub></sub> ა∠.∠ყყ [5]
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	2100  10001100		1

2106 reserved		-	_
2107 reserved		-	4
2108 reserved		-	4
2109 reserved 2110 IM-Inform	otion	- Grouped	<del> </del>
	ation  Of-Messages-Successfully-Exploded	Unsigned32	+
	Df-Messages-Successfully-Sent	Unsigned32	+
	nber-Of-Messages-Exploded	Unsigned32	+
	nber-Of-Messages-Sent	Unsigned32	7
2115 DCD-Info		Grouped	7
2116 Content-II		UTF8String	7
2117 Content-p		UTF8String	7
2118 Charge-R		Enumerated	7
Note: The AVP	codes from 2119 to 2199 are reserved for TS 32.299.	•	
2200 Subsession		Grouped	
	on-Enforcement-Info	Grouped	
2202 Subsession		Unsigned32	
2203 Subsession		Enumerated	29.215
2204 Multiple-E		Enumerated	[22]
2205 UE-Local-		OctetString	ا الحدا
2206 DRA-Dep		Enumerated	4
2207 PCRF-Ad		DiameterIdentity	4
2208 DRA-Bind		Enumerated	
	codes from 2209 to 2299 are reserved for TS 29.215.	1	1
2300 reserved	aat Timaatama Frantiss	- Lineigne doo	4
	est-Timestamp-Fraction	Unsigned32	+
	onse-Timestamp-Fraction	Unsigned32	+
2303 Online-Ch 2304 CUG-Info		Enumerated OctetString	+
	e-Tariff-Information	Grouped	+
2306 Tariff-XMI		UTF8String	<del> </del>
2307 MBMS GV		Address	+
	uthenticated-Flag	Enumerated	+
2309 Account-E		Time	+
2310 AoC-Forn		Enumerated	+
2311 AoC-Serv		Enumerated	<del> </del>
	ice-Obligatory-Type	Grouped	32.299 [5]
2313 AoC-Serv		Enumerated	7
	scription-Information	Grouped	7
2315 Preferred	•	Unsigned32	7
2316 Reserved		-	7
2317 CSG-Acc		Enumerated	7
2318 CSG-Men	nbership-Indication	Enumerated	
2319 User-CSC		Grouped	
2320 Outgoing-		UTF8String	
	-Charging-Identifier	UTF8String	
	gency-Indicator	Enumerated	
2323 MBMS-Ch		Enumerated	
	codes from 2324 to 2399 are reserved for TS 32.299.	T	1
2400 LMSI		OctetString	4
2401 Serving-N		Grouped	4
2402 MME-Nar		DiameterIdentity	-
2403 MSC-Nun		OctetString	4
2404 LCS-Cap		Unsigned32	00.470
2405 GMLC-Ac		Address	29.173
2406 Additional		Grouped Address	[25]
2407 PPR-Add		DiameterIdentity	+
2409 SGSN-Na		DiameterIdentity  DiameterIdentity	+
2410 SGSN-Re		DiameterIdentity	=
2411 RIA-Flags		Unsigned32	=
	codes from 2412 to 2499 are reserved for TS 29.173.	Onoignous2	j
2500 SLg-Loca		Enumerated	1
2501 LCS-EPS		Grouped	29.172
2502 LCS-Requ		Grouped	[24]
			1

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	<del></del>
2515 Velocity-Estimate OctetString	
2516 EUTRAN-Positioning-Data OctetString	
2517 ECGI OctetString	
2517 ECGI Octerating 2518 Location-Event Enumerated	
	<del></del>
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	
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	
2549   LRA-Flags   Unsigned 52	<del></del>
2550   Periodic-Location-Support-indicator   Enumerated	
2552 ESMLC-Cell-Info Grouped	
2553 Cell-Portion-ID         Unsigned32           2554 1xRTT-RCID         OctetString	
LADALLINE LIEU III	
2555 Delayed-Location-Reporting-Data Grouped	
2555 Delayed-Location-Reporting-Data Grouped 2556 Civic-Address UTF8String	
2555Delayed-Location-Reporting-DataGrouped2556Civic-AddressUTF8String2557Barometric-PressureUnsigned32	
2555Delayed-Location-Reporting-DataGrouped2556Civic-AddressUTF8String2557Barometric-PressureUnsigned322558UTRAN-Additional-Positioning-DataOctetString	
2555Delayed-Location-Reporting-DataGrouped2556Civic-AddressUTF8String2557Barometric-PressureUnsigned322558UTRAN-Additional-Positioning-DataOctetString2559Motion-Event-InfoGrouped	
2555Delayed-Location-Reporting-DataGrouped2556Civic-AddressUTF8String2557Barometric-PressureUnsigned322558UTRAN-Additional-Positioning-DataOctetString2559Motion-Event-InfoGrouped2560Linear-DistanceUnsigned32	
2555Delayed-Location-Reporting-DataGrouped2556Civic-AddressUTF8String2557Barometric-PressureUnsigned322558UTRAN-Additional-Positioning-DataOctetString2559Motion-Event-InfoGrouped2560Linear-DistanceUnsigned322561Maximum-IntervalUnsigned32	
2555Delayed-Location-Reporting-DataGrouped2556Civic-AddressUTF8String2557Barometric-PressureUnsigned322558UTRAN-Additional-Positioning-DataOctetString2559Motion-Event-InfoGrouped2560Linear-DistanceUnsigned322561Maximum-IntervalUnsigned322562Sampling-IntervalUnsigned32	
2555Delayed-Location-Reporting-DataGrouped2556Civic-AddressUTF8String2557Barometric-PressureUnsigned322558UTRAN-Additional-Positioning-DataOctetString2559Motion-Event-InfoGrouped2560Linear-DistanceUnsigned322561Maximum-IntervalUnsigned322562Sampling-IntervalUnsigned322563Reporting-DurationUnsigned32	
2555Delayed-Location-Reporting-DataGrouped2556Civic-AddressUTF8String2557Barometric-PressureUnsigned322558UTRAN-Additional-Positioning-DataOctetString2559Motion-Event-InfoGrouped2560Linear-DistanceUnsigned322561Maximum-IntervalUnsigned322562Sampling-IntervalUnsigned322563Reporting-DurationUnsigned322564Reporting-Location-RequirementsUnsigned32	
2555Delayed-Location-Reporting-DataGrouped2556Civic-AddressUTF8String2557Barometric-PressureUnsigned322558UTRAN-Additional-Positioning-DataOctetString2559Motion-Event-InfoGrouped2560Linear-DistanceUnsigned322561Maximum-IntervalUnsigned322562Sampling-IntervalUnsigned322563Reporting-DurationUnsigned322564Reporting-Location-RequirementsUnsigned322565Additional-AreaGrouped	
2555Delayed-Location-Reporting-DataGrouped2556Civic-AddressUTF8String2557Barometric-PressureUnsigned322558UTRAN-Additional-Positioning-DataOctetString2559Motion-Event-InfoGrouped2560Linear-DistanceUnsigned322561Maximum-IntervalUnsigned322562Sampling-IntervalUnsigned322563Reporting-DurationUnsigned322564Reporting-Location-RequirementsUnsigned32	32.299 [5]

2004 IMC Application Deference Identifier	LITEOCHRICA	
2601 IMS-Application-Reference-Identifier	UTF8String	
2602 Low-Priority-Indicator	Enumerated	
2603 IP-Realm-Default-Indicator	Enumerated	
2604 Local-GW-Inserted-Indicator 2605 Transcoder-Inserted-Indicator	Enumerated	
	Enumerated	
2606   PDP-Address-Prefix-Length   Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299.	Unsigned32	
2700 Reserved	- LITE00:	
2701 Transit-IOI-List	UTF8String	
2702 Status-AS-Code	Enumerated	
2703 NNI-Information	Grouped	
2704 NNI-Type	Enumerated	
2705 Neighbour-Node-Address	Address	
2706 Relationship-Mode	Enumerated	
2707 Session-Direction	Enumerated	
2708 From-Address	UTF8String	32.299 [5]
2709 Access-Transfer-Information	Grouped	02.200 [0]
2710 Access-Transfer-Type	Enumerated	
2711 Related-IMS-Charging-Identifier	UTF8String	
2712 Related-IMS-Charging-Identifier-Node	Address	
2713 IMS-Visited-Network-Identifier	UTF8String	
2714 TWAN-User-Location-Info	Grouped	
2715 Reserved		
2716 BSSID	UTF8String	
2717 TAD-Identifier	Enumerated	
Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299.		•
2800 Reserved	-	
2801 ADC-Revalidation-Time	Time	
2802 TDF-Application-Instance-Identifier	OctetString	
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	
2810 Monitoring-Time	Time	
2811 AN-GW-Status	Enumerated	
2812 User-Location-Info-Time	Grouped	
2813 CS-Service-Resource-Report	Time	
2814 CS-Service-Resource-Failure-Cause	Enumerated	
2815 CS-Service-Resource-Result-Operation	Enumerated	
2816 Default-QoS-Information	Grouped	
2817 Default-QoS-Name	UTF8String	
2818 Conditional-APN-Aggregate-Max-Bitrate	Grouped	29.212
2819 RAN-NAS-Release-Cause	OctetString	[19]
2820 Presence-Reporting-Area-Elements-List	OctetString	
2821 Presence-Reporting-Area-Identifier	OctetString	
2822 Presence-Reporting-Area-Information	Grouped	
2823 Presence-Reporting-Area-Status	Unsigned32	
2824 NetLoc-Access-Support	Unsigned32	
2825 Fixed-User-Location-Info	Grouped	
2826 PCSCF-Restoration-Indication	Unsigned32	
2827 IP-CAN-Session-Charging-Scope	Enumerated	
2828 Monitoring-Flags	Unsigned32	
2829 Default-Access	Enumerated	
2830 NBIFOM-Mode	Enumerated	
2831 NBIFOM-Support	Enumerated	
2832 RAN-Rule-Support	Unsigned32	
2833 Access-Availability-Change-Reason	Unsigned32	
2834 Routing-Rule-Failure-Code	Unsigned32	
2835 Routing-Rule-Report	Grouped	
2836 Traffic-Steering-Policy-Identifier-DL	OctetString	
2837 Traffic-Steering-Policy-Identifier-UL	OctetString	
2838 Request-Type	Unsigned32	
2000   Noquost Typo	Onsignedaz	

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2839 Execution-Time	Time	
2840 Conditional-Policy-Information	Grouped	
2841 Resource-Release-Notification	Enumerated	
2842 Removal-Of-Access	Enumerated	
2843 TCP-Source-Port	Unsigned32	
2844 Default-Bearer-Indication	Enumerated	
2845 PRA-Install	Grouped	
2846 PRA-Remove	Grouped	
2847 3GPP-PS-Data-Off-Status	Enumerated	
2848 Extended-APN-AMBR-DL	Unsigned32	
2849 Extended-APN-AMBR-UL	Unsigned32	
2850 Extended-GBR-DL	Unsigned32	
2851 Extended-GBR-UL	Unsigned32	
2852 Max-PLR-DL	Unsigned32	
2853 Max-PLR-UL	Unsigned32	
2854 UE-Status	Unsigned32	
Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212.		
2900 reserved	-	
2901 Policy-Counter-Identifier	Grouped	
2902 Policy-Counter-Status	UTF8String	
2903 Policy-Counter-Status-Report	Grouped	29.219
2904 SL-Request-Type	Enumerated	[26]
2905 Pending-Policy-Counter-Information	Grouped	
2906 Pending-Policy-Counter-Change-Time	Time	
2907 SN-Request-Type	Unsigned32	
Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219.		
3000 reserved	-	
3001 Device-Action	Grouped	
3002 Device-Notification	Grouped	
3003 Trigger-Data	Grouped	
3004 Payload	OctetString	
3005 Action-Type	Enumerated	
3006 Priority-Indication	Enumerated	29.368
3007 Reference-Number	Unsigned32	[27]
3008 Request-Status	Enumerated	
3009 Delivery-Outcome	Enumerated	
3010 Application-Port-Identifier	Unsigned32	
3011 Old-Reference-Number	Unsigned32	
3012 Feature-Supported-In-Final-Target	Unsigned32	
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.	Onoignedoz	
3100 IP-SM-GW-Number	OctetStrina	
3101 IP-SM-GW-Name	DiameterIdentity	
3102 User-Identifier	Grouped	
3103 Service-ID	Enumerated	
3104 SCS-Identity	OctetString	
3105 Service-Parameters		
	Grouped	
3106 T4-Parameters	Grouped	
3107 Service-Data	Grouped	<del></del>
3108 T4-Data	Grouped	
3109 HSS-Cause	Unsigned32	
3110 SIR-Flags	Unsigned32	
3111 External-Identifier	UTF8String	29.336
3112 IP-SM-GW-Realm	DiameterIdentity	[28]
3113 AESE-Communication-Pattern	Grouped	
3114 Communication-Pattern-Set	Grouped	
3115 Periodic-Communication-Indicator	Unsigned32	
	Unsigned32	
3116 Communication-Duration-Time		1
3117 Periodic-Time	Unsigned32	
3117 Periodic-Time 3118 Scheduled-Communication-Time	Unsigned32 Grouped	
3117 Periodic-Time 3118 Scheduled-Communication-Time 3119 Stationary-Indication	Unsigned32 Grouped Unsigned32	
3117 Periodic-Time 3118 Scheduled-Communication-Time	Unsigned32 Grouped	
3117 Periodic-Time 3118 Scheduled-Communication-Time 3119 Stationary-Indication 3120 AESE-Communication-Pattern-Config-Status 3121 AESE-Error-Report	Unsigned32 Grouped Unsigned32 Grouped Grouped	
3117 Periodic-Time 3118 Scheduled-Communication-Time 3119 Stationary-Indication 3120 AESE-Communication-Pattern-Config-Status 3121 AESE-Error-Report	Unsigned32 Grouped Unsigned32 Grouped	
3117 Periodic-Time 3118 Scheduled-Communication-Time 3119 Stationary-Indication 3120 AESE-Communication-Pattern-Config-Status 3121 AESE-Error-Report 3122 Monitoring-Event-Configuration	Unsigned32 Grouped Unsigned32 Grouped Grouped Grouped	
3117 Periodic-Time 3118 Scheduled-Communication-Time 3119 Stationary-Indication 3120 AESE-Communication-Pattern-Config-Status 3121 AESE-Error-Report	Unsigned32 Grouped Unsigned32 Grouped Grouped	

3125 SCEF-ID	DiameterIdentity	
3126 SCEF-Reference-ID-for-Deletion	Unsigned32	
3127 Monitoring-Type	Unsigned32	
3128 Maximum-Number-of-Reports	Unsigned32	
3129 UE-Reachability-Configuration	Grouped	
3130 Monitoring-Duration	Time	
3131 Maximum-Detection-Time	Unsigned32	
3132 Reachability-Type	Unsigned32	
3133 Maximum-Latency	Unsigned32	
3134 Maximum-Response-Time	Unsigned32	
3135 Location-Information-Configuration	Grouped	
3136 MONTE-Location-Type	Unsigned32	
3137 Accuracy	Unsigned32	
3138 Association-Type	Unsigned32	
3139 Roaming-Information	Unsigned32	
3140 Reachability-Information	Unsigned32	
3141 IMEI-Change	Unsigned32	
3142 Monitoring-Event-Config-Status	Grouped	
3143 Supported-Service	Grouped	
3144 Supported-Monitoring-Event	Unsigned64	
3145 CIR-Flags	Unsigned32	
3146 Service-Result	Grouped	
3147 Service-Result-Code	Unsigned32	
3148 Reference-ID-Validity-Time	Time	
3149 Event-handling	Unsigned32	
3150 NIDD-Authorization-Request	Grouped	
3151 NIDD-Authorization-Response	Grouped	
3152 Service-Report	Grouped	
3153 Node-Type 3154 S6t-HSS-Cause	Unsigned32	
	Unsigned32	
3155 Enhanced-Coverage-Restriction	Grouped	
3156 Enhanced-Coverage-Restriction-Data	Grouped	
3157 Restricted-PLMN-List	Grouped	
3158 Allowed-PLMN-List	Grouped	
3159 Requested-Validity-Time	Time	
3160 Granted-Validity-Time	Time	
3161 NIDD-Authorization-Update	Grouped	
3162 Loss-Of-Connectivity-Reason	Unsigned32	
3163 Group-Reporting-Guard-Timer	Unsigned32	
3164 CIA-Flags	Unsigned32	
3165 Group-Report	Grouped	
3166 Group-Report-Item	Grouped	
3167 RIR-Flags	Unsigned32	
3168 Type-Of-External-Identifier	Unsigned32	
3169 APN-Validity-Time	Grouped	
3170 Suggested-Network-Configuration	Grouped	
3171 Monitoring-Event-Report-Status	Grouped	
3172 PLMN-ID-Requested	Enumerated	
3173 AdditionalIdentifiers	Grouped	
3174 NIR-Flags	Unsigned32	
3175 Reporting-Time-Stamp	Time	
3176 Group-User-Identifier	Grouped	
3177 NIA-Flags	Unsigned32	
3178 MTC-Provider-Info	Grouped	
3179 MTC-Provider-ID	UTF8String	
3180 PDN-Connectivity-Status-Configuration	Grouped	
3181 PDN-Connectivity-Status-Report	Grouped	
3182 PDN-Connectivity-Status-Report	Unsigned32	
3183 Traffic-Profile	Unsigned32	
3184 Updated-Network-Configuration	Grouped	
3185 Battery-Indicator	Unsigned32	
3186 SCEF-Reference-ID-Ext	Unsigned64	
3187 SCEF-Reference-ID-for-Deletion-Ext	Unsigned64	
	Unsigned04	
Note: The AVP codes from 3188 to 3199 are reserved for TS 29.336.	Enumarated	
3200 SM-Delivery-Outcome-T4	Enumerated	

3201 Absent-Subscriber-Diagnostic-T4	Enumerated	
3202 Trigger-Action	Unsigned32	29.337
3203 MTC-Error-Diagnostic	Unsigned32	[29]
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.	Unsigned32	
3300 SC-Address	OctetString	
3301 SM-RP-UI	OctetString	
3302 TFR-Flags	Unsigned32	
3303 SM-Delivery- Failure-Cause	Grouped	<del></del>
3304 SM-Enumerated-Delivery-Failure-Cause	Enumerated	<del></del>
	OctetString	
3305 SM-Diagnostic-Info		
3306 SM-Delivery-Timer 3307 SM-Delivery-Start-Time	Unsigned32	<del></del>
3308 SM-RP-MTI	Time	<del></del>
3308   SM-RP-MTI 3309   SM-RP-SMEA	Enumerated	
	OctetString	
3310 SRR-Flags	Unsigned32	<del></del>
3311 SM-Delivery-Not-Intended	Enumerated	
3312 MWD-Status	Unsigned32	
3313 MME-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3314 MSC-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3315 SGSN-Absent-User-Subscriber-Diagnostic SM	Unsigned32	
3316 SM-Delivery-Outcome	Grouped	
3317 MME-SM-Delivery-Outcome	Grouped	
3318 MSC-SM-Delivery-Outcome	Grouped	
3319 SGSN-SM-Delivery-Outcome	Grouped	
3320 IP-SM-GW-SM-Delivery-Outcome	Grouped	
3321 SM-Delivery-Cause	Enumerated	
3322 Absent-User-Diagnostic-SM	Unsigned32	29.338
3323 RDR-Flags	Unsigned32	[30]
3324 SMSMI-Correlation-ID	Unsigned32	
3325 HSS-ID	UTF8String	
3326 Originating-SIP-URI	UTF8String	
3327 Destination-SIP-URI	UTF8String	
3328 OFR-Flags	Unsigned32	
3329 Maximum-UE-Availability-Time	Time	
3330 Maximum-Retransmission-Time	Time	
3331 Requested-Retransmission-Time	Time	
3332 SMS-GMSC-Address	OctetString	
3333 SMS-GMSC-Alert-Event	Unsigned32	
3334 SMSF-3GPP-Absent-User-Diagnostic-SM	Unsigned32	
3335 SMSF-Non-3GPP-Absent-User-Diagnostic-SM	Unsigned32	
3336 SMSF-3GPP-SM-Delivery-Outcome	Grouped	
3337 SMSF-Non-3GPP-SM-Delivery-Outcome	Grouped	
3338 SMSF-3GPP-Number	OctetString	
3339 SMSF-Non-3GPP-Number	OctetString	
3340 SMSF-3GPP-Name	DiameterIdentity	
3341 SMSF-Non-3GPP-Name	DiameterIdentity	
3342 SMSF-3GPP-Realm	DiameterIdentity	
3343 SMSF-Non-3GPP-Realm	DiameterIdentity	
3344 SMSF-3GPP-Address	Grouped	
3345 SMSF-Non-3GPP-Address	Grouped	
Note: The AVP codes from 3346 to 3399 are reserved for TS 29.338.	<u> </u>	1
3400 reserved	-	
3401 Reason-Header	UTF8String	
3402 Instance-Id	UTF8String	
3403 Route-Header-Received	UTF8String	
3404 Route-Header-Transmitted	UTF8String	
3405 SM-Device-Trigger-Information	Grouped	
3406 MTC-IWF-Address	Address	
3407 SM-Device-Trigger-Indicator	Enumerated	32.299 [5]
3408 SM-Sequence-Number	Unsigned32	<del></del>
3409 SMS-Result	Unsigned32	
3410 VCS-Information	Unsigned32 Grouped	
3411 Basic-Service-Code	Grouped	
3412 Bearer-Capability	OctetString	<del></del>
3413 Teleservice	OctetString	

	ISUP-Location-Number	OctetString	
3415	Forwarding-Pending	Enumerated	
3416	ISUP-Release-Cause	Unsigned32	
	MSC-Address	OctetString	
3418	Network-Call-Reference-Number	OctetString	
3419	Start-of-Charging	Time	
	VLR-Number	OctetString	
	CN-Operator-Selection-Entity	Enumerated	
	ISUP-Cause-Diagnostics	OctetString	
	ISUP-Cause-Location	Unsigned32	
	ISUP-Cause-Value	Unsigned32	
	EPDG-Address	Address	
	Announcing-UE-HPLMN-Identifier	UTF8String	
	Announcing-UE-VPLMN-Identifier	UTF8String	
	Coverage-Status	Enumerated	
	Layer-2-Group-ID		
		OctetString	
	Monitored-PLMN-Identifier	UTF8String	
	Monitoring-UE-HPLMN-Identifier	UTF8String	
	Monitoring-UE-Identifier	UTF8String	
	Monitoring-UE-VPLMN-Identifier	UTF8String	
	ProSe-PC3-Control-Protocol-Cause	Integer32	
	ProSe-PC3-EPC-Control-Protocol-Cause	Integer32	
	Requested-PLMN-Identifier	UTF8String	
	Requestor-PLMN-Identifier	UTF8String	
	Role-Of-ProSe-Function	Enumerated	
3439	Usage-Information-Report-Sequence-Number	Integer32	
3440	ProSe-3rd-Party-Application-ID	UTF8String	
3441	ProSe-Direct-Communication-Transmission-Data-Container	Grouped	
3442	ProSe-Direct-Discovery-Model	Enumerated	
3443	ProSe-Event-Type	Enumerated	
3444	ProSe-Function-IP-Address	Address	
3445	ProSe-Functionality	Enumerated	
	ProSe-Group-IP-Multicast-Addresses	Address	
	ProSe-Information	Grouped	
	ProSe-Range-Class	Enumerated	
	ProSe-Reason-For-Cancellation	Enumerated	
	ProSe-Request-Timestamp	Time	
	ProSe-Role-Of-UE	Enumerated	
	ProSe-Source-IP-Address	Address	
	ProSe-UE-ID	OctetString	
	Proximity-Alert-Indication	Enumerated	
	Proximity-Alert-Timestamp	Time	
	Proximity-Cancellation-Timestamp	Time	
	ProSe-Function-PLMN-Identifier		
		UTF8String	
	Application-Specific-Data	OctetString	
	Coverage-Info	Grouped	
	Location-Info	Grouped	
	ProSe-Direct-Communication-Reception-Data-Container	Grouped	
	Radio-Frequency	OctetString	
	Radio-Parameter-Set-Info	Grouped	
	Radio-Parameter-Set-Values	OctetString	
	Radio-Resources-Indicator	Integer32	
	Time-First-Reception	Time	
	Time-First-Transmission	Time	
	Transmitter-Info	Grouped	
	The AVP codes from 3469 to 3499 are reserved for TS 32.299.		
3500	BMSC-Address	Address	
3501	BMSC-Port	Unsigned32	
	MBMS-Bearer-Event	Unsigned32	
	MBMS-Bearer-Event-Notification	Grouped	00.400
	MBMS-Bearer-Request	Grouped	29.468
	MBMS-Bearer-Response	Grouped	[31]
	MBMS-Bearer-Result	Unsigned32	
	MBMS-Start-Time	Time	
	Radio-Frequency	Unsigned32	
- 5 5 5		55.g5.55=	

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	MGI-Allocation-Request	Grouped	1
	MGI-Allocation-Response	Grouped	1
	MGI-Allocation-Result	Unsigned32	<u> </u>
	MGI-Deallocation-Request MGI-Deallocation-Response	Grouped Grouped	1
	MGI-Deallocation-Response MGI-Deallocation-Result	Unsigned32	+
	MGI-Expiry	Grouped	1
	MGI-Number	Unsigned32	1
	1B2U-Security	Unsigned32	1
	ocal-M1-Information	Grouped	†
	ocal-MB2-U-Information	Grouped	
	MBMS-eNB-IP-Multicast-Address	Address	†
	IBMS-eNB-IPv6-Multicast-Address	Address	
	IBMS-GW-SSM-IP-Address	Address	1
3523 M	IBMS-GW-SSM-IPv6-Address	Address	
3524 C	Common-Tunnel-Endpoint-Identifier	OctetString	
	EC-Request	OctetString	
	OHC-Request	Grouped	
	OHC-Full-Header-Periodicity	Float32	<u> </u>
	OHC-Profile	Unsigned32	]
	serplane-Protocol-Result	Grouped	]
	OHC-Result	Unsigned32	1
	EC-Result	Unsigned32	1
	OHC-Max-CID	Unsigned32	
	he AVP codes from 3533 to 3599 are reserved for TS 29.468.	LITEON:	1
	Origin-App-Layer-User-Id	UTF8String	1
	arget-App-Layer-User-Id	UTF8String	-
	roSe-Function-ID	OctetString	<u> </u>
3603 P	roSe-Request-Type	Unsigned32	
	pplication-Data	OctetString UTF8String	<u> </u> 
	Illowed-Suffixes-Number	Unsigned32	29.343
	Monitor-Target	Grouped	[32]
	roSe-Code-Suffix-Mask	Grouped	
	uffix-Code	OctetString	†
	uffix-Mask	OctetString	1
	anned-User-Target	Grouped	
	Metadata-Indicator	Unsigned32	†
	he AVP codes from 3613 to 3699 are reserved for TS 29.343.	<b>3</b>	1
	roSe-Subscription-Data	Grouped	
3702 P	roSe-Permission	Unsigned32	Ī
3703 P	roSe-Allowed-PLMN	Grouped	
3704 P	roSe-Direct-Allowed	Unsigned32	29.344
	IPR-Flags	Unsigned32	[33]
	NR-Flags	Unsigned32	<u> </u>
	roSe-Initial-Location-Information	Grouped	<u> </u>
	uthorized-Discovery-Range	Unsigned32	
	he AVP codes from 3709 to 3799 are reserved for TS 29.344.		1
	eserved	LITEON	1
	pp-Layer-User-Id	UTF8String	1
	ssistance-info	Grouped	1
	ssistance-Info-Validity-Timer	Unsigned32	1
	viscovery-Type	Unsigned32	1
3805 F		OctetString	1
	MAC-Address Match-Report	UTF8String Grouped	†
	Operating-Channel	Unsigned32	29.345
	2P-Features	Unsigned32	[34]
	roSe-App-Code	UTF8String	†
	roSe-App-Id	UTF8String	†
	roSe-App-Mask	UTF8String	†
	ProSe-Discovery-Filter	Grouped	†
	RR-Flags	Unsigned32	†
	roSe-Validity-Timer	Unsigned32	1
	Requesting-EPUID	UTF8String	1
	. •	<u>~</u>	

			1
3817 Targeted-EPUID		UTF8String	<u> </u>
3818 Time-Window		Unsigned32	<u> </u>
3819 WiFi-P2P-Assista		Grouped	<u> </u>
3820 WLAN-Assistanc		Grouped	4
3821 WLAN-Link-Laye		OctetString	<u> </u>
3822 WLAN-Link-Laye		Grouped	<u> </u>
3823 Location-Update-		Grouped	<u> </u>
3824 Location-Update-		Unsigned32	<u> </u>
3825 Change-Of-Area		Grouped	<u> </u>
3826 Location-Update- 3827 Report-Cardinalit		Unsigned32 Enumerated	+
3828 Minimum-Interval		Unsigned32	+
3829 Periodic-Location	_	Grouped	+
3830 Location-Report-		Unsigned32	+
3831 Total-Number-Of		Unsigned32	1
3832 Validity-Time-Ann		Unsigned32	<u> </u>
3833 Validity-Time-Mo		Unsigned32	<u> </u>
3834 Validity-Time-Co		Unsigned32	1
3835 ProSe-App-Code		Grouped	1
3836 MIC	, iiiio	OctetString	†
3837 UTC-based-Cour	nter	Unsigned32	†
3838 ProSe-Match-Re		Unsigned32	†
3839 ProSe-Metadata-		OctetString	†
3840 App-Identifier		Grouped	†
3841 OS-ID		OctetString	†
3842 OS-App-ID		UTF8String	†
3843 Requesting-RPA	UID	UTF8String	†
3844 Target-RPAUID	<del></del>	UTF8String	†
3845 Target-PDUID		OctetString	†
3846 ProSe-Restricted	I-Code	OctetString	†
3847 ProSe-Restricted		OctetString	†
3848 Beginning-Suffix		OctetString	†
3849 Ending-Suffix		OctetString	†
3850 Discovery-Entry-	ID	Unsigned32	1
3851 Match-Timestam		Time	
3852 PMR-Flags		Unsigned32	1
3853 ProSe-Application	n-Metadata	UTF8String	
3854 Discovery-Auth-F		Grouped	]
3855 Discovery-Auth-F	Response	Grouped	
3856 Match-Request		Grouped	
3857 Match-Report-Inf		Grouped	
3858 Banned-RPAUID		UTF8String	<u> </u>
3859 Banned-PDUID		OctetString	<u> </u>
3860 Code-Receiving-		Grouped	<u> </u>
3861 Code-Sending-Se	ecurity-Material	Grouped	1
3862 DUSK		OctetString	1
3863 DUIK		OctetString	4
3864 DUCK		OctetString	4
3865 MIC-Check-indica		Unsigned32	4
3866 Encrypted-Bitmas		OctetString	4
3867 ProSe-App-Code	e-Surrix-Kange	OctetString	4
3868 PC5-tech	0000 t- 0000	OctetString	
	rom 3869 to 3899 are reserved for TS 29.345	).	
3900 Reserved	antino	Crowned	1
3901 Enhanced-Diagno		Grouped	1
3902 Inter-UE-Transfe 3903 TWAG-Address	I	Enumerated	1
3904 Announcement-Ir	nformation	Address Grouped	+
3905 Announcement-lo		Unsigned32	+
3906 Announcement-C		Unsigned32 Unsigned32	32.299 [5]
3907 Variable-Part	JIUGI	Grouped	1
3908 Variable-Part-Ord	der	Unsigned32	†
3909 Variable-Part-Typ		Unsigned32	†
3910 Variable-Part-Val		UTF8String	†
3911 Time-Indicator	iuo	Unsigned32	+
SST I THIS HUISAUI		Onlighted	i

3912   Duda-Indicator	[]-		
3914   Janguage	3912 Quota-Indicator	Enumerated	<u>↓</u>
3916   Called-Identity			<u>↓</u>
3916   Called-Identity/Change   Grouped		· · · · · · · · · · · · · · · · · · ·	<b>↓</b>
3911   WWAN-User-Location-Info			4
3918   Monitoring-Event-Configuration-Activity   Integer32		g	<b>↓</b>
3919   Monitoring-Event-Roprib-Data   Grouped   3920   Monitoring-Event-Roprib-Data   Grouped   3921   Monitoring-Event-Information   Grouped   3922   Monitoring-Event-Information   Grouped   3922   Monitoring-Event-Peport-Number   Unsigned32   3923   Monitoring-Event-Peport-Number   Unsigned32   3924   Cellular-Network-Information   OctetString   3925   Related-Change-Condition-Information   Grouped   3926   Related-Change-Condition-Information   Grouped   3927   CPDT-Information   Grouped   3928   CPDT-Information   Grouped   3929   Serving-Node-Identity   DiameterIdentity   3930   DiameterIdentity   DiameterIdentity   3930   DiameterIdentity   DiameterIdentity   3930   DiameterIdentity   DiameterIdentity   3931   GR-PPT-Unnelling-Method   Enumerated   3932   SUNI-PDU-CP-Only-Flag   Enumerated   3933   APN-Rate-Control-Downlink   Grouped   3934   APN-Rate-Control-Downlink   Grouped   3935   APN-Rate-Control-Downlink   Grouped   3936   APN-Rate-Control-Downlink   Grouped   3937   Rate-Control-Max-Rate   Unsigned32   3938   Rate-Control-Max-Rate   Unsigned32   3939   Rate-Control-Max-Rate   Unsigned32   3939   Rate-Control-Imax-Rate   Unsigned32   3940   SCS-AS-Address   Grouped   3941   SCS-Address   Grouped   3942   SCS-Realm   DiameterIdentity   3944   SCS-Address   Grouped   4001   Aggregated-Congestion-Info   Grouped   4001   Aggregated-Congestion-Info   Grouped   4001   Aggregated-Congestion-Info   Grouped   4002   Congestion-Level-Pelinition   Grouped   4003   Grouped-Pelinition   Grouped   4004   Grouped-Pelinition   Grouped   4005   Grouped-Pelinition   Grouped   4006   Grouped-Pelinition   Unsigned32   4008   Congestion-Level-Pelinition   Unsigned32   4009   Grouped-Pelinition   Grouped   4012   RUCK-Arien   Unsigned32   4013   Event-Configuration-Status   Grouped   4020   Transfer-Request-Type   U			<b>↓</b>
			. ↓
3921   Monitoring-Event-Information   Grouped			1
19322   Monitoring-Event-Functionality   Integer22   3923   Monitoring-Event-Report-Number   Unsigned32   3923   Monitoring-Event-Report-Number   Unsigned32   3924   Cellular-Network-Information   Grouped   3925   Related-Change-Condition-Information   Grouped   3926   Related-Trigger   Grouped   3927   Cellular-Network-Information   Grouped   3927   Cellular-Network-Information   Grouped   3928   NIDD-Submission   Grouped   3928   NIDD-Submission   Grouped   3929   Related-Infigure   Grouped   3929   Cellular-Network-Information   Grouped   3939   CP-CloT-PeS-Optimisation-Indicator   Enumerated   3931   SGI-PIP-Tunnelling-Method   Enumerated   3931   SGI-PIP-Tunnelling-Method   Enumerated   3932   UNI-PID-UP-Chyl-Pilag   Enumerated   3932   UNI-PID-UP-Chyl-Pilag   Enumerated   3933   APN-Rate-Control-Downlink   Grouped   3934   APN-Rate-Control-Downlink   Grouped   3936   Additional-Exception-Reports   Enumerated   3937   Rate-Control-Uplink   Grouped   3936   Additional-Exception-Reports   Enumerated   3938   Rate-Control-Max-Message-Size   Unsigned32   3938   Rate-Control-Max-Message-Size   Unsigned32   3938   Rate-Control-Max-Rate   Unsigned32   3938   Rate-Control-Max-Rate   Unsigned32   3938   Rate-Control-Max-Rate   Unsigned32   3938   SCS-Address   Grouped   3941   SCS-Address   Grouped   3941   SCS-Address   Grouped   4004   Aggregated-RUC-Report   Grouped   4004   Aggregated-RUC-Report   Grouped   4004   Aggregated-RUC-Report   Grouped   4004   Aggregated-RUC-Report   Grouped   4004   4007   Conditional-Restriction   Unsigned32   4004   4008   Aggregated-RUC-Report   Grouped   4008   Congestion-Level-Set-Id   Unsigned32   4004   4008   Aggregated-RUC-Report   Grouped   4009   MSL-List   CotetString   4009   MSL-List   CotetString   4009   MSL-List   CotetString   4009   MSL-List   CotetString   4001   Rate-Report   Grouped   4002   Congestion-Level-Report   Grouped   4003   4004   4004   4004   4004   4004   4004   4004   4004   4004   4004   4004   4004   4004   4004   4004   4004   4004   4004   4			
3923   Monitoring-Event-Report-Number   Unsigned32   3924   Cellular-Network-Information   OctetString   3925   Related-Change-Condition-Information   Grouped   3926   Related-Change-Condition-Information   Grouped   3927   CPDT-Information   Grouped   3928   Serving-Node-Identity   DiameterIndentity   DiameterIndentity   3930   CP-CloT-EPS-Optimisation-Indicator   Enumerated   3932   Serving-Node-Identity   DiameterIndentity   3930   CP-CloT-EPS-Optimisation-Indicator   Enumerated   3931   SGI-PPI-Unnelling-Method   Enumerated   3933   MIN-PDU-CP-Only-Flag   Enumerated   3933   APN-Rate-Control   Grouped   3934   APN-Rate-Control-Diplink   Grouped   3935   APN-Rate-Control-Diplink   Grouped   3935   APN-Rate-Control-Diplink   Grouped   3935   APN-Rate-Control-Diplink   Grouped   3936   APN-Rate-Control-Diplink   Grouped   3936   APN-Rate-Control-Max-Rate   Unsigned32   3938   Rate-Control-Max-Rate   Unsigned32   3939   Rate-Control-Max-Rate   Unsigned32   3939   SCS-Address   Grouped   4040   Congestion-Level-Deliber   Grouped   4040   Aggregated-Congestion-Info   Grouped   4040   Aggregated-Congestion-Info   Grouped   4040   Aggregated-Congestion-Info   Grouped   4040   Congestion-Level-Pelrition   Grouped   4040   Congestion-Level-Pelrition   Grouped   4040   Congestion-Level-Pelrition   Grouped   4040   Congestion-Level-Pelrition   Grouped   4060   Congestion-Level-Pelrition   Grouped   4070   Conditional-Restriction   Unsigned32   4080   600   4			
3924   Cellular-Network-Information   OctetString   3925   Related-Change-Condition-Information   Grouped   3926   Related-Change-Condition-Information   Grouped   3927   CPDT-Information   Grouped   3928   NIDD-Submission   Grouped   3928   NIDD-Submission   Grouped   3928   Serving-Node-Identity   Diameter/dentity   3939   CP-CloT-EPS-Optimisation-Indicator   Enumerated   3931   SGI-PIP-Tunnelling-Method   Enumerated   3932   NIPD-UCP-Only-Flag   Enumerated   3933   APN-Rate-Control   Grouped   3933   APN-Rate-Control-Downlink   Grouped   3934   APN-Rate-Control-Downlink   Grouped   3935   APN-Rate-Control-Downlink   Grouped   3936   Additional-Exception-Reports   Enumerated   3937   Rate-Control-Max-Message-Size   Unsigned32   3938   Rate-Control-Max-Reports   Unsigned32   3939   Rate-Control-Max-Reports   Grouped   3939   APN-Rate-Control-Max-Reports   Grouped   3930   CP-CloT-Control-Max-Reports   Grouped   3931   Soci-S-Realm   Diameter/dentity   3932   Soci-S-Realm   Diameter/dentity   3934   Soci-S-Realm   Grouped   4000   Congestion-Level-Definition   Grouped   4001   Aggregated-Congestion-Info   Grouped   4002   Congestion-Level-Definition   Grouped   4003   Congestion-Level-Befinition   Grouped   4004   Congestion-Level-Set-Id   Unsigned32   4004   Congestion-Level-Set-Id   Unsigned32   4005   Congestion-Level-Set-Id   Unsigned32   4006   Congestion-Level-Set-Id   Unsigned32   4007   Conditional-Restriction   Unsigned32   4008   MS-List   OctetString   4009   MS-List   OctetString   4001   Reporting-Restriction   Unsigned32   4001   Reporting-Restriction   Unsigned32   4001   Reporting-Restriction   Unsigned32   4002   Restriction   Grouped   4003   Transfer-Policy-Id   Grouped   4004   Transfer-Policy-Id   Unsigned32   4005   Transfer-Policy-Id   Unsigned32   4006   Transfer-Policy-Id   Unsigned32   4007   Transfer-Policy-Id   Unsigned32   4008   Transfer-Policy-Id   Unsigned32   4009   MS-List   OctetString   Transfer-Policy-Id   Unsigned32   4004   Transfer-Policy-Id   Unsigned32   4005   Transf			
3925   Related-Change-Condition-Information   Grouped   3926   Related-Trigger   Grouped   3927   Serving-Node-Identity   Grouped   3928   NIDD-Submission   Grouped   3929   Serving-Node-Identity   DiameterIdentity   3930   DP-CloT-EPS-Optimisation-Indicator   Enumerated   3931   SGi-PP-Tunnelling-Method   Enumerated   3931   SGi-PP-Tunnelling-Method   Grouped   3932   Serving-Node-Identity   Grouped   3933   APN-Rate-Control-Downlink   Grouped   3934   APN-Rate-Control-Downlink   Grouped   3935   APN-Rate-Control-Downlink   Grouped   3936   APN-Rate-Control-Publink   Grouped   3936   APN-Rate-Control-Publink   Grouped   3936   Additional-Exception-Reports   Enumerated   3937   Rate-Control-Max-Rate   Unsigned32   3938   Rate-Control-Ima-Unit   Unsigned32   3939   Rate-Control-Ima-Unit   Unsigned32   3939   Rate-Control-Ima-Unit   Unsigned32   3940   SCS-As-Address   Grouped   4001   Aggregated-Congestion-Info   Grouped   4001   Aggregated-Congestion-Info   Grouped   4001   Aggregated-Congestion-Info   Grouped   4001   Aggregated-Congestion-Level-Polintion   Grouped   4002   Congestion-Level-Polintion   Grouped   4004   Congestion-Level-Polintion   Grouped   4004   Congestion-Level-Value   Unsigned32   4005   Congestion-Level-Value   Unsigned32   4006   Congestion-Level-Value   Unsigned32   4007   Conditional-Restriction   Unsigned32   4008   MISI-List   OctelString   4010   ROAF-Iid   DiameterIdentity   4011   Reporting-Restriction   Unsigned32   4012   Note-The AVP codes from 4014 to 4099 are reserved for TS 29.217. 4011   Network-Congestion-Area-Report   Grouped   4012   Congestion-Level-Polintion   Unsigned32   4014   Temporing-Restriction   Unsigned32   4015   ROAF-Iid   DiameterIdentity   4016   ROAF-Iid   DiameterIdentity   4017   Roaf-Indentity   Unsigned32   4018   Temporing-Restriction   Unsigned32   4019   MISI-List   OctelString   4010   ROAF-Iid   OctelString   4020   Transfer-Request-Type   Unsigned32   4031   Transfer-Policy   Grouped   4041   Temporing-Restriction   Time   405   Transfer-Polic			1
3926   Related-Trigger   Grouped   3927   CPDT-Information   Grouped   3928   MIDD-Submission   Grouped   3929   Serving-Node-Identity   DiameterIdentity   3930   CP-CloT-EPS-Optimisation-Indicator   Enumerated   3931   Sigi-PtP-Tunnelling-Method   Enumerated   3932   UNI-PU-CP-Only-Flag   Enumerated   3933   APN-Rate-Control   Grouped   3934   APN-Rate-Control-Downlink   Grouped   3935   APN-Rate-Control-Downlink   Grouped   3936   Additional-Exception-Reports   Grouped   3937   Rate-Control-Max-Message-Size   Unsigned32   3938   Rate-Control-Max-Rate   Unsigned32   3939   Rate-Control-Max-Rate   Unsigned32   3939   Rate-Control-Max-Rate   Unsigned32   3939   Rate-Control-Max-Rate   Unsigned32   3939   Rate-Control-Max-Rate   Unsigned32   3940   SCS-Raddress   Grouped   3941   SCS-Address   Grouped   3942   SCS-Realm   DiameterIdentity   Note: The AVP codes from 3943 to 3999 are reserved for TS 32.299.   4000   Aggregated-RUCl-Report   Grouped   4001   Aggregated-RUCl-Report   Grouped   4002   Congestion-Level-Definition   Grouped   4003   Grouped   Unsigned32   4004   Congestion-Level-Pefinition   Grouped   4004   Congestion-Level-Pefinition   Grouped   4004   Congestion-Level-Value   Unsigned32   4005   Congestion-Level-Natue   Unsigned32   4006   Congestion-Level-Natue   Unsigned32   4006   Congestion-Level-Natue   Unsigned32   4007   Conditional-Restriction   Unsigned32   4008   Roboel-Id   OctelString   4008   Roboel-Id   OctelString   4001   Reporting-Restriction   Unsigned32   4001   Strended-eNodeB-ID   OctelString   4002   Reporting-Restriction   Unsigned32   4003   Nes-Request-Type   Unsigned32   4004   Unsigned32   String   4005   Reporting-Restriction   Unsigned32   4006   Transfer-Request-Type   Unsigned32   4007   Transfer-Request-Type   Unsigned32   4008   Proceed   Proceed   Proceed   4009   Transfer-Request-Type   Unsigned32   4009   Transfer-Request-Type   Unsigned32   4001   Transfer-Request-Type   Unsigned33   4001   Reporting-Restriction   Grouped   4002   Transfer-Request-Type   Unsigne	3924 Cellular-Network-Information		
1992   NDD-Submission   Grouped   1928   NDD-Submission   Grouped   1928   NDD-Submission   Grouped   1929   Serving-Node-Identity   DiameterIdentity   1938   NDD-Submission   Enumerated   1939   Serving-Node-Identity   DiameterIdentity   1930   Signif-Pt-Tunnelling-Method   Enumerated   1931   Signif-Pt-Tunnelling-Method   Enumerated   1932   NDD-Submission   Grouped   1933   APN-Rate-Control-Downlink   Grouped   1934   APN-Rate-Control-Downlink   Grouped   1935   APN-Rate-Control-Downlink   Grouped   1936   Additional-Exception-Reports   Enumerated   1936   Additional-Exception-Reports   Enumerated   1937   Rate-Control-Max-Message-Size   Unsigned32   1938   Rate-Control-Max-Rate   Unsigned32   1939   Rate-Control-Max-Rate   Unsigned32   1940   SCS-Address   Address   1940   SCS-Address   Grouped   1941   SCS-Address   Address   1942   SCS-Radm   Diametridentity   1940   Note: The AVP codes from 3943 to 3999 are reserved for TS 32.299.   1940   Aggregated-Congestion-Info   Grouped   1940   Aggregated-Congestion-Info   Grouped   1940   Aggregated-Congestion-Info   Grouped   1940   Aggregated-Congestion-Info   Grouped   1940   Congestion-Level-Definition   Grouped   1940   Congestion-Level-Range   Unsigned32   1940   Congestion-Level-Range   Unsigned32   1940   Congestion-Level-Restriction   Unsigned32   1940   Congestion-Level-Restriction   Unsigned32   1940   Conditional-Restriction   Unsigned32   1940   Rock-Fid   Unsigned32   1941   Reporting-Restriction   Unsigned32   1941   Reporting-Restriction   Unsigned32   1941   Reporting-Restriction   Unsigned32   1942   Reference-Id   Grouped   1943   Range-Folicy-Id   Unsigned32   1944   Stern-Reporter   Grouped   1945   CotelString   Unsigned32   1947   Transfer-Request-Type   Unsigned32   1948   CotelString   Unsigned32   1949   Range-Folicy-Id   Unsigned32   1940   Range-Folicy-Id   Unsigned32   1941   Revert-Configuration-State   Unsigned32   1941   Event-Configuration-State   Unsigned32   1941   Event-Configuration-State   Unsigned32   1941   Event-Configur	3925 Related-Change-Condition-Information		
Sizea   NiDD-Submission	3926 Related-Trigger	Grouped	
	3927 CPDT-Information	Grouped	1
3930   GP-CloT-EPS-Optimisation-Indicator   Enumerated	3928 NIDD-Submission	Grouped	1
	3929 Serving-Node-Identity	DiameterIdentity	1
	3930 CP-CloT-EPS-Optimisation-Indicator	Enumerated	1
1932   INI-PDL-CP-Only-Flag			7
3933 APN-Rate-Control		Enumerated	1
3935   APN-Rate-Control-Downlink   Grouped			1
3935 APN-Rate-Control-Uplink			1
3936   Additional-Exception-Reports   Enumerated			1
1937   Rate-Control-Max-Message-Size			† !
3938   Rate-Control-Max-Rate   Unsigned32   3939   Rate-Control-Time-Unit   Unsigned32   3940   SCS-A5Address   Grouped   3941   SCS-Address   Address   Address   Address   3942   SCS-Realm   DiameterIdentity   Note: The AVP codes from 3943 to 3999 are reserved for TS 32.299.			†
1939   Rate-Control-Time-Unit   Unsigned32   SCS-AG-Address   Grouped   SCS-AG-Address   Address   Addre			†
3940   SCS-AS-Address   Grouped   3941   SCS-Address   Address   3942   SCS-Realm   DiameterIdentity   Note: The AVP codes from 3943 to 3999 are reserved for TS 32.299.   4000   Aggregated-Congestion-Info   Grouped   4001   Aggregated-Congestion-Info   Grouped   4002   Congestion-Level-Report   Grouped   4003   Congestion-Level-Definition   Grouped   4004   Congestion-Level-Set-Id   Unsigned32   4005   Congestion-Level-Set-Id   Unsigned32   4006   Congestion-Level-Value   Unsigned32   4007   Conditional-Restriction   Grouped   4009   IMSI-List   OctetString   4009   IMSI-List   OctetString   4010   RCAF-Id   DiameterIdentity   4011   Reporting-Restriction   Unsigned32   4012   RUCI-Action   Unsigned32   4013   Extended-eNodeB-ID   OctetString   4010   RCAF-Id   DiameterIdentity   4011   Network-Congestion-Area-Report   Grouped   4012   RVI-Action   Unsigned32   4012   Network-Congestion-Area-Report   Grouped   4010   RCAF-Id   Grouped   4011   Network-Congestion-Area-Report   Grouped   4012   Network-Congestion-Area-Report   Grouped   4010   Network-Congestion-Area-Report   Grouped   4010   Network-Congestion-Area-Report   Grouped   4010   Network-Area-Info-List   OctetString   4010   Network-Area-Info-List   OctetString   4011   Network-Area-Info-List   OctetString   4012   Transfer-Request-Type   Unsigned32   4013   Transfer-Request-Type   Unsigned32   4014   Time-Window   Grouped   4015   Transfer-Policy-Id   Unsigned32   4016   Transfer-Policy-Id   Unsigned32   4017   Transfer-Policy-Id   Unsigned32   4018   Transfer-Policy-Id   Unsigned32   4019   Access-Network-Reports   Grouped   4010   Grouped   4011   Grouped   4012   Event-Configuration-State   Unsigned32   4013   Event-Configuration-State   Unsigned32   4014   Event-Configuration-State   Unsigned32			†
3941   SCS-Address   DiameterIdentity			†
3942   SCS-Realm			†
Note: The AVP codes from 3943 to 3999 are reserved for TS 32.299.			┪
A000   Aggregated-Congestion-Info   Grouped   A001   Aggregated-RUCI-Report   Grouped   A002   Congestion-Level-Definition   Grouped   A003   Congestion-Level-Range   Unsigned32   A004   Congestion-Level-Range   Unsigned32   A005   Congestion-Level-Set-Id   Unsigned32   A006   Congestion-Level-Value   Unsigned32   A007   Conditional-Restriction   Grouped   Congestion-Location-Id   Grouped   A008   Add   Congestion-Level-Value   Unsigned32   A008   Add   Congestion-Level-Value   Unsigned32   A008   Add   Congestion-Location-Id   Grouped   A009   Add   Congestion-Level-Value   A009   Add   A008   Add   A009   A008			l
A001   Aggregated-RUCI-Report   Grouped			1
4002   Congestion-Level-Definition   Grouped   4003   Congestion-Level-Range   Unsigned32   4004   Congestion-Level-Set-Id   Unsigned32   4005   Congestion-Level-Value   Unsigned32   4006   Congestion-Level-Value   Unsigned32   4007   Conditional-Restriction   Grouped   4008   eNodeB-Id   OctetString   4009   IMSI-List   OctetString   4010   RCAF-Id   DiameterIdentity   4011   Reporting-Restriction   Unsigned32   4012   RUCI-Action   Unsigned32   4013   Extended-eNodeB-ID   OctetString   Note: The AVP codes from 4014 to 4099 are reserved for TS 29.217.   4101   Network-Congestion-Area-Report   Grouped   29.153   4102   Ns-Request-Type   Unsigned32   [37]   Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.   4201   Network-Area-Info-List   OctetString   4202   Reference-Id   OctetString   4203   Transfer-Request-Type   Unsigned32   4204   Time-Window   Grouped   4205   Transfer-Start-Time   Time   4206   Transfer-Start-Time   Time   4207   Transfer-Policy-Id   Unsigned32   4208   Transfer-Policy-Id   Unsigned32   4209   Number-Of-UEs   Unsigned32   4201   Access-Network-Reports   Grouped   4211   Event-Configuration   Grouped   4212   Event-Configuration-State   Unsigned32   4213   Event-Configuration-Status   Unsigned32   4214   Event-Configuration-Status   Unsigned32   4214   Event-Configuration-Status   Unsigned32   4214   Event-Configuration-Status   Unsigned32   4215   Vent-Reporting-Results   Unsigned32   4216   Vent-Reporting-Results   Unsigned32   4217   Vent-Reporting-Results   Unsigned32   4218   Vent-Reporting-Results   Unsigned32   4219   Vent-Reporting-Results   Unsigned32   4210   Vent-Reporting-Results   Unsigned32   4211   Vent-Reporting-Results   Unsigned32   4212   Vent-Reporting-Results   Unsigned32   4213   Vent-Reporting-Results   Unsigned32   4214   Vent-Reporting-Results   Unsigned32   4215   Vent-Reporting-Results   Unsigned32   4216   Vent-Reporting-Results   Unsigned32   4217   Vent-Reporting-Results   Unsigned32   4218   Vent-Reporting-Results   Unsigned32   4219   Ve			+
4003   Congestion-Level-Range   Unsigned32   4004   Congestion-Level-Set-Id   Unsigned32   4006   Congestion-Level-Value   Unsigned32   4006   Congestion-Level-Value   Unsigned32   4006   Congestion-Level-Value   Unsigned32   4008   Congestion-Level-Value   Unsigned32   4008   Congestion-Level-Value   Unsigned32   [35]   4008   RodeB-Id   OctetString   OctetString   4009   IMSI-List   OctetString   4010   RCAF-Id   DiameterIdentity   4011   Reporting-Restriction   Unsigned32   4012   Reporting-Restriction   Unsigned32   4013   Extended-eNodeB-ID   OctetString   Voltage   Voltag			+
4004   Congestion-Level-Set-Id   Unsigned32   4005   Congestion-Level-Value   Unsigned32   4006   Congestion-Level-Value   Unsigned32   4007   Conditional-Restriction   Unsigned32   4008   eNodeB-Id   OctetString   4009   IMSI-List   OctetString   4010   RCAF-Id   DiameterIdentity   4011   Reporting-Restriction   Unsigned32   4012   RUCI-Action   Unsigned32   4013   Extended-eNodeB-ID   OctetString   4010   Network-Congestion-Area-Report   Grouped   29.153   4102   Ns-Request-Type   Unsigned32   [37]   Note: The AVP codes from 4014 to 4099 are reserved for TS 29.217.   4101   Network-Congestion-Area-Report   Grouped   29.153   4102   Ns-Request-Type   Unsigned32   [37]   Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.   4201   Network-Area-Info-List   OctetString   4202   Reference-Id   OctetString   4203   Transfer-Request-Type   Unsigned32   4204   Time-Window   Grouped   4205   Transfer-Bolicy   Grouped   4205   Transfer-Bolicy   Grouped   4206   Transfer-Policy-Id   Unsigned32   4208   Transfer-Policy-Id   Unsigned32   4209   Number-Of-UEs   Unsigned32   4210   Access-Network-Reports   Grouped   4211   Event-Configuration   Grouped   4212   Event-Configuration-Status   Grouped   4214   Event-Configuration-Status   Unsigned32   4215   Event-Configuration-Status   Unsigned32   4216   Event-Configuration-Status   Unsigned32   4216   Event-Configuration-Status   Unsigned32   4216   Event-Configuration-Status   Unsi			+
4005   Congestion-Level-Value   Unsigned32   4006   Congestion-Location-Id   Grouped   Grouped   4007   Conditional-Restriction   Unsigned32   4008   eNodeB-Id   OctetString   4009   IMSI-List   OctetString   4010   RCAF-Id   DiameterIdentity   4011   Reporting-Restriction   Unsigned32   4012   RUCI-Action   Unsigned32   4013   Extended-eNodeB-ID   OctetString   Note: The AVP codes from 4014 to 4099 are reserved for TS 29.217.   4101   Network-Congestion-Area-Report   Grouped   29.153   4102   Ns-Request-Type   Unsigned32   37]   Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.   4201   Network-Area-Info-List   OctetString   4202   Reference-Id   OctetString   4203   Transfer-Request-Type   Unsigned32   4204   Time-Window   Grouped   4205   Transfer-End-Time   Time   4206   Transfer-Policy-Id   Unsigned32   4208   Transfer-Policy-Id   Unsigned32   4209   Number-Of-UEs   Unsigned32   4210   Access-Network-Reports   Grouped   4211   Event-Configuration   Grouped   4212   Event-Configuration-Status   Grouped   4214   Event-Configuration-Status   Unsigned32   4215   Event-Configuration-Status   Unsigned32   4216   Event-Configurati			+
4006   Congestion-Location-Id   Grouped   4007   Conditional-Restriction   Unsigned32   [35]   4008   eNodeB-Id   OctetString   4009   IMSI-List   OctetString   4010   RCAF-Id   DiameterIdentity   4011   Reporting-Restriction   Unsigned32   4012   RUCI-Action   Unsigned32   4013   Extended-eNodeB-ID   OctetString   Votes			-}
4007   Conditional-Restriction   Unsigned32   4008   eNodeB-Id   OctetString   OctetString   4009   IMSI-List   OctetString   Moll-List   OctetString   4010   RCAF-Id   DiameterIdentity   4011   Reporting-Restriction   Unsigned32   4012   RUCI-Action   Unsigned32   4013   Extended-eNodeB-ID   OctetString   OctetString			20 247
4008   eNodeB-Id   OctetString   4009   IMSI-List   OctetString   4010   RCAF-Id   DiameterIdentity   4011   Reporting-Restriction   Unsigned32   4012   RUCI-Action   Unsigned32   4013   Extended-eNodeB-ID   OctetString   Volume   4011   Network-Congestion-Area-Report   Grouped   29.153   4101   Network-Congestion-Area-Report   Grouped   29.153   4102   Ns-Request-Type   Unsigned32   [37]   Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.   4102   Ns-Request-Type   Unsigned32   [37]   Network-Area-Info-List   OctetString   4201   Network-Area-Info-List   OctetString   4202   Reference-Id   OctetString   4203   Transfer-Request-Type   Unsigned32   4204   Time-Window   Grouped   4205   Transfer-End-Time   Time   4206   Transfer-Start-Time   Time   4207   Transfer-Policy   Grouped   4208   Transfer-Policy-Id   Unsigned32   4209   Number-Of-UEs   Unsigned32   4210   Access-Network-Reports   Grouped   4211   Event-Configuration-State   Unsigned32   4213   Event-Configuration-Status   Grouped   4214   Event-Reporting-Results   Unsigned32   4214   Event-Reporting-Results   Unsigned32   Unsigned32   4214   Event-Reporting-Results   Unsigned32   Unsigned32   4214   Event-Reporting-Results   Unsigned32   4214   Event-Reporting-Results   Unsigned32   4215   Event-Reporting-Results   Unsigned32   4216   Event-Reporting-Results   Unsigned32   4217   Event-Reporting-Results   Unsigned32   4218   Event-Reporting-Results			
4009   IMSI-List			[၁၁]
DiameterIdentity			-
4011 Reporting-Restriction         Unsigned32           4012 RUCl-Action         Unsigned32           4013 Extended-eNodeB-ID         OctetString           Note: The AVP codes from 4014 to 4099 are reserved for TS 29.217.         Grouped         29.153           4101 Network-Congestion-Area-Report         Unsigned32         [37]           Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.         Unsigned32         [37]           Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.         OctetString         Unsigned32           4201 Network-Area-Info-List         OctetString         OctetString           4202 Reference-Id         OctetString         OctetString           4203 Transfer-Request-Type         Unsigned32         Unsigned32           4204 Time-Window         Grouped         Grouped           4205 Transfer-End-Time         Time         Time           4206 Transfer-Start-Time         Time         29.154           4208 Transfer-Policy         Grouped         29.154           4209 Number-Of-UEs         Unsigned32         138           4210 Access-Network-Reports         Grouped         Grouped           4211 Event-Configuration-State         Unsigned32           4213 Event-Configuration-States         Unsigned32			-}
4012 RUCI-Action         Unsigned32           4013 Extended-eNodeB-ID         OctetString           Note: The AVP codes from 4014 to 4099 are reserved for TS 29.217.         Grouped         29.153           4101 Network-Congestion-Area-Report         Grouped         29.153           4102 Ns-Request-Type         Unsigned32         [37]           Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.         OctetString           4201 Network-Area-Info-List         OctetString           4202 Reference-Id         OctetString           4203 Transfer-Request-Type         Unsigned32           4204 Time-Window         Grouped           4205 Transfer-End-Time         Time           4206 Transfer-Policy         Grouped           4207 Transfer-Policy-Id         Unsigned32           4208 Transfer-Policy-Id         Unsigned32           4210 Access-Network-Reports         Grouped           4211 Event-Configuration         Grouped           4212 Event-Configuration-State         Unsigned32           4213 Event-Configuration-Status         Grouped           4214 Event-Reporting-Results         Unsigned32			4
A013   Extended-eNodeB-ID			-}
Note: The AVP codes from 4014 to 4099 are reserved for TS 29.217.  4101 Network-Congestion-Area-Report Grouped 29.153 4102 Ns-Request-Type Unsigned32 [37]  Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.  4201 Network-Area-Info-List OctetString 4202 Reference-Id OctetString Unsigned32 Unsigned32 4204 Time-Window Grouped 4205 Transfer-End-Time Time 4206 Transfer-Start-Time Time 4206 Transfer-Policy Grouped 4208 Transfer-Policy Grouped 4208 Transfer-Policy Grouped 4208 Transfer-Policy Grouped 4209 Number-Of-UEs Unsigned32 4210 Access-Network-Reports Grouped 4211 Event-Configuration Grouped 4212 Event-Configuration-State Unsigned32 4213 Event-Configuration-Status Grouped 4214 Event-Reporting-Results Unsigned32			4
4101 Network-Congestion-Area-Report         Grouped         29.153           4102 Ns-Request-Type         Unsigned32         [37]           Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.         0ctetString           4201 Network-Area-Info-List         OctetString           4202 Reference-Id         OctetString           4203 Transfer-Request-Type         Unsigned32           4204 Time-Window         Grouped           4205 Transfer-End-Time         Time           4206 Transfer-Start-Time         Time           4207 Transfer-Policy         Grouped           4208 Transfer-Policy-Id         Unsigned32           4209 Number-Of-UEs         Unsigned32           4210 Access-Network-Reports         Grouped           4211 Event-Configuration         Grouped           4212 Event-Configuration-State         Unsigned32           4213 Event-Configuration-Status         Grouped           4214 Event-Reporting-Results         Unsigned32			
At 102   Ns-Request-Type   Unsigned   [37]			00.4==
Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.  4201 Network-Area-Info-List OctetString 4202 Reference-Id OctetString 4203 Transfer-Request-Type Unsigned32 4204 Time-Window Grouped 4205 Transfer-End-Time Time 4206 Transfer-Start-Time Time 4207 Transfer-Policy Grouped 4208 Transfer-Policy-Id Unsigned32 4209 Number-Of-UEs Unsigned32 4210 Access-Network-Reports Grouped 4211 Event-Configuration Grouped 4212 Event-Configuration-State 4213 Event-Configuration-Status 4214 Event-Reporting-Results  OctetString OctetStr			
4201         Network-Area-Info-List         OctetString           4202         Reference-Id         OctetString           4203         Transfer-Request-Type         Unsigned32           4204         Time-Window         Grouped           4205         Transfer-End-Time         Time           4206         Transfer-Start-Time         Time           4207         Transfer-Policy         Grouped           4208         Transfer-Policy-Id         Unsigned32           4209         Number-Of-UEs         Unsigned32           4210         Access-Network-Reports         Grouped           4211         Event-Configuration         Grouped           4212         Event-Configuration-State         Unsigned32           4213         Event-Configuration-Status         Grouped           4214         Event-Reporting-Results         Unsigned32			[37]
4202         Reference-Id         OctetString           4203         Transfer-Request-Type         Unsigned32           4204         Time-Window         Grouped           4205         Transfer-End-Time         Time           4206         Transfer-Start-Time         Time           4207         Transfer-Policy         Grouped           4208         Transfer-Policy-Id         Unsigned32           4209         Number-Of-UEs         Unsigned32           4210         Access-Network-Reports         Grouped           4211         Event-Configuration         Grouped           4212         Event-Configuration-State         Unsigned32           4213         Event-Configuration-Status         Grouped           4214         Event-Reporting-Results         Unsigned32			1
4203         Transfer-Request-Type         Unsigned32           4204         Time-Window         Grouped           4205         Transfer-End-Time         Time           4206         Transfer-Start-Time         Time           4207         Transfer-Policy         Grouped           4208         Transfer-Policy-Id         Unsigned32           4209         Number-Of-UEs         Unsigned32           4210         Access-Network-Reports         Grouped           4211         Event-Configuration         Grouped           4212         Event-Configuration-State         Unsigned32           4213         Event-Configuration-Status         Grouped           4214         Event-Reporting-Results         Unsigned32			
4204         Time-Window         Grouped           4205         Transfer-End-Time         Time           4206         Transfer-Start-Time         Time           4207         Transfer-Policy         Grouped           4208         Transfer-Policy-Id         Unsigned32           4209         Number-Of-UEs         Unsigned32           4210         Access-Network-Reports         Grouped           4211         Event-Configuration         Grouped           4212         Event-Configuration-State         Unsigned32           4213         Event-Configuration-Status         Grouped           4214         Event-Reporting-Results         Unsigned32			<b>.</b>
4205         Transfer-End-Time         Time           4206         Transfer-Start-Time         Time           4207         Transfer-Policy         Grouped           4208         Transfer-Policy-Id         Unsigned32           4209         Number-Of-UEs         Unsigned32           4210         Access-Network-Reports         Grouped           4211         Event-Configuration         Grouped           4212         Event-Configuration-State         Unsigned32           4213         Event-Configuration-Status         Grouped           4214         Event-Reporting-Results         Unsigned32			<b>.</b>
4206         Transfer-Start-Time         Time           4207         Transfer-Policy         Grouped           4208         Transfer-Policy-Id         Unsigned32           4209         Number-Of-UEs         Unsigned32           4210         Access-Network-Reports         Grouped           4211         Event-Configuration         Grouped           4212         Event-Configuration-State         Unsigned32           4213         Event-Configuration-Status         Grouped           4214         Event-Reporting-Results         Unsigned32			1
4207Transfer-PolicyGrouped4208Transfer-Policy-IdUnsigned324209Number-Of-UEsUnsigned324210Access-Network-ReportsGrouped4211Event-ConfigurationGrouped4212Event-Configuration-StateUnsigned324213Event-Configuration-StatusGrouped4214Event-Reporting-ResultsUnsigned32			<b>↓</b>
4208Transfer-Policy-IdUnsigned324209Number-Of-UEsUnsigned324210Access-Network-ReportsGrouped4211Event-ConfigurationGrouped4212Event-Configuration-StateUnsigned324213Event-Configuration-StatusGrouped4214Event-Reporting-ResultsUnsigned32			1
4208   Irranser-Policy-Id   Unsigned   4209   Number-Of-UEs   Unsigned   4210   Access-Network-Reports   Grouped   4211   Event-Configuration   Grouped   4212   Event-Configuration-State   Unsigned   4213   Event-Configuration-Status   Grouped   4214   Event-Reporting-Results   Unsigned   320   4214   Event-Reporting-Results   Unsigned   320   331			20 154
4210 Access-Network-Reports  4211 Event-Configuration  4212 Event-Configuration-State  4213 Event-Configuration-Status  4214 Event-Reporting-Results  4215 Unsigned 32  4216 Unsigned 32  4217 Unsigned 32			
4211Event-ConfigurationGrouped4212Event-Configuration-StateUnsigned324213Event-Configuration-StatusGrouped4214Event-Reporting-ResultsUnsigned32	4209 Number-Of-UEs		[30]
4211Event-ConfigurationGrouped4212Event-Configuration-StateUnsigned324213Event-Configuration-StatusGrouped4214Event-Reporting-ResultsUnsigned32	4210 Access-Network-Reports		
4212Event-Configuration-StateUnsigned324213Event-Configuration-StatusGrouped4214Event-Reporting-ResultsUnsigned32		Grouped	
4213 Event-Configuration-Status Grouped 4214 Event-Reporting-Results Unsigned32			
4214 Event-Reporting-Results Unsigned32			]
			]
			]

1040 Fitting deal COFF Defension ID	Lie el ere e dOA	
4216 Extended-SCEF-Reference-ID	Unsigned64	
Note: The AVP codes from 4217 to 4299 are reserved for TS 29.154.		
4300 Communication-Failure-Information	Grouped	
4301 Cause-Type	Unsigned32	
4302 S1AP-Cause	Unsigned32	
4303 RANAP-Cause	Unsigned32	
4304 GMM-Cause	Unsigned32	
4305 SM-Cause	Unsigned32	
4306 Number-of-UE-Per-Location-Configuration	Grouped	
4307 Number-of-UE-Per-Location-Report	Grouped	
4308 UE-Count	Unsigned32	
4309 BSSGP-Cause	Unsigned32	
4310 Serving-PLMN-Rate-Control	Grouped	
4311 Uplink-Rate-Limit	Unsigned32	
4312 Downlink-Rate-Limit	Unsigned32	29.128
4313 Extended-PCO	OctetString	[36]
4314 Connection-Action	Unsigned32	[00]
4315 Non-IP-Data	OctetString	
4316 SCEF-Wait-Time	Time	
4317 CMR-Flags	Unsigned32	
4318 RRC-Cause-Counter	Grouped	
4319 Counter-Value	Unsigned32	
4320 RRC-Counter-Timestamp	Time	
4321 TDA-Flags	Unsigned32	
4322 Idle-Status-Indication	Grouped	
4323 Idle-Status-Timestamp	Time	
4324 Active-Time	Unsigned32	
4325 Reachability-Cause	Unsigned32	
Note: The AVP codes from 4326 to 4399 are reserved for TS 29.128.	<u> </u>	•
4400 Charging-Per-IP-CAN-Session-Indicator	Enumerated	
4401 Access-Network-Info-Change	Enumerated	
4402 Discoveree-UE-HPLMN-Identifier	UTF8String	
4403 Discoveree-UE-VPLMN-Identifier	UTF8String	
4404 Discoverer-UE-HPLMN-Identifier	UTF8String	
4405 Discoverer-UE-VPLMN-Identifier	UTF8String	
4406 3GPP-PS-Data-Off-Status	Enumerated	
		32.299 [5]
4407 Unused-Quota-Timer	Unsigned32	
4408 Announcing-PLMN-ID	UTF8String	
4409 ProSe-UE-to-Network-Relay-UE-ID	OctetString	
4410 ProSe-Target-Layer-2-ID	OctetString	
4411 Relay-IP-address	Address	
4412 Target-IP-Address	Address	
4413 FE-Identifier-List	UTF8String	
Note: The AVP codes from 4414 to 4499 are reserved for TS 32.299		
4500 MCPTT-ID	UTF8String	
4501 Data-Identification	Grouped	
4502 Data-Identification-Prefix	Unsigned32	
4503 Data-Identification-Flags	Unsigned64	
4504 DPR-Flags	Unsigned32	
4505 DPA-Flags	Unsigned32	
4506 DUR-Flags	Unsigned32	
4507 DUA-Flags	Unsigned32	29.283
4508 NDR-Flags	Unsigned32	[39]
4509 NDA-Flags	Unsigned32	<del> </del>
4510 User-Data-Id	Unsigned32	<del></del>
4511 MC-Service-User-Profile-Data	Grouped	<del></del>
		<del> </del>
4512 Sequence-Number	Unsigned32	
4513 MCVideo-ID	UTF8String UTF8String	<del></del>
4514 MC-Data-ID	LILESSTRING	
INIOto: The AVA codes from 4515 to 4500 are received for TS 20 202	O 11 ootiiiig	
Note: The AVP codes from 4515 to 4599 are reserved for TS 29.283.		
4600 V2X-PC5-Allowed-PLMN	Grouped	
4600 V2X-PC5-Allowed-PLMN 4601 V2X-Update-Flags	Grouped Unsigned32	20 388
4600 V2X-PC5-Allowed-PLMN 4601 V2X-Update-Flags 4602 V2X-Notify-Flags	Grouped Unsigned32 Unsigned32	29.388
4600 V2X-PC5-Allowed-PLMN 4601 V2X-Update-Flags	Grouped Unsigned32	29.388 [40]

Note: The AVP codes from 4605 to 4799 are reserved for TS 29.38	8.			
4700 V2X-Authorization-Data Grouped				
4701 V2X-Permission-in-VPLMN	Unsigned32	29.389		
4702 V2X-Application-Server	Grouped	[41]		
Note: The AVP codes from 4703 to 4799 are reserved for TS and T	S 29.389.			
29.56				
		[42]		
Note: The AVP codes from 4800 to 4999 are reserved for TS and TS 29.561.				

## 8 Experimental result codes

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

## 8.1 3GPP specific result codes

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

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

#### 8.1.1 Informational

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

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

#### 8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

Experimental Result Code	Result text	Specified in the TS	
2001	DIAMETER_FIRST_REGISTRATION		
2002	DIAMETER_SUBSEQUENT_REGISTRATION		
2003	DIAMETER_UNREGISTERED_SERVICE	29.229 [2]	
2004	DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED		
2005	Deprecated value		
Note: The Experime	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.		
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]	
Note: The Experime	ental Result Codes from 2022 to 2040 are reserved for the TS 29.061		
		29.109 [7]	
Note: The Experimental Result Codes from 2401 to 2420 are reserved for the TS 29.109.			
2421	DIAMETER_QOS_FLOW_DELETION_INDICATION	29.561 [42]	
Note: The Experime	ental Result Codes from 2422 to 2440 are reserved for the TS 29.561.		

### 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 I	DIAMETER_PRIOR_UPDATE_IN_PROGRESS		
	ental Result Codes from 4102 to 4120 are reserved for the TS 2	9.329.	
4121	DIAMETER_ERROR_OUT_OF_RESOURCES		29.061 [13]
1	ntal Result Codes from 4122 to 4140 are reserved for the TS 2	9.061.	
4141	DIAMETER_PCC_BEARER_EVENT		
4142	DIAMETER_BEARER_EVENT		
4143	DIAMETER_AN_GW_FAILED		29.212 [19]
4144	DIAMETER_PENDING_TRANSACTION		<u> </u>
4145	DIAMETER_UE_STATUS_SUSPEND		
Note: The Experime	ental Result Codes from 4146 to 4160 are reserved for the TS 2	9.212	00 000 [5]
Note: The Famories	intel Describ Codes from 44C4 to 4400 are recovered for the TC 2	2 200	32.299 [5]
	ental Result Codes from 4161 to 4180 are reserved for the TS 3	2.299.	T
	ER_AUTHENTICATION_DATA_UNAVAILABLE ER_ERROR_CAMEL_SUBSCRIPTION_PRESENT		29.272 [21]
	It Codes from 4182 to 4200 are reserved for the TS 29.272.		
	ER_ERROR_ABSENT_USER		29.173 [25]
_	It Codes from 4202 to 4220 are reserved for the TS 29.173.		20.170 [20]
	ER_ERROR_UNREACHABLE_USER		
	ER_ERROR_SUSPENDED_USER		
	ER_ERROR_DETACHED_USER		00.470.50.41
	ER_ERROR_POSITIONING_DENIED		29.172 [24]
	ER_ERROR_POSITIONING_FAILED		
	ER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT		
Note: The Experimental Resu	It Codes from 4227 to 4240 are reserved for the TS 29.172.		
4241 DIAMET	ER_ERROR_NO_AVAILABLE_POLICY_COUNTERS		29.219 [26]
Note: The Experimental Result Codes from 4242 to 4260 are reserved for the TS 29.219.			
	STED_SERVICE_TEMPORARILY_NOT_AUTHORIZED		29.214 [18]
Note: The Experimental Resu	It Codes from 4262 to 4280 are reserved for the TS 29.214.		

### 8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS	
5001	DIAMETER_ERROR_USER_UNKNOWN	10	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH		
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED		
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED		
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED		
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED		
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]	
5008	DIAMETER ERROR TOO MUCH DATA	20.220 [2]	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA		
5010	unassigned		
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED		
5012	DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUP PORTED		
Note: The Expe	erimental Result Codes from 5013 to 5020 are reserved for the	TS 29 229	
. 10to. The Expe	The state of the s	32.299 [5]	
Note: The Expe	erimental Result Codes from 5021 to 5040 are reserved for the		
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	02.200.	
5042	DIAMETER ERROR W-APN UNUSED BY USER		
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBS		
0040	CRIPTION	29.234 [6]	
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION		
5045	DIAMETER ERROR UNSUITABLE NETWORK		
	erimental Result Codes from 5046 to 5060 are reserved for the	TS 29.234.	
5061	INVALID_SERVICE_INFORMATION		
5062	FILTER_RESTRICTIONS		
5063	REQUESTED_SERVICE_NOT_AUTHORIZED		
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		
Note: The Expe	erimental Result Codes from 5069 to 5080 are reserved for TS 2	9.209, TS 29.211	
	TS 29.214.	,	
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_NOTIFIE	29.329 [4]	
5105	DIAMETER_ERROR_TRANSPARENT_DATA OUT OF SYNC		
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT		
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA		
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE		
	erimental Result Codes from 5109 to 5119 are reserved for the	TS 29.329	
5120 DIAMETER ERROR START INDICATION			

5120 DIAMETER\_ERROR\_START\_INDICATION
5121 DIAMETER\_ERROR\_STOP\_INDICATION
5122 DIAMETER\_ERROR\_UNKNOWN\_MBMS\_BEARER\_SERVI 29.061 [13]
CE

5123 DIAMETER\_ERROR\_SERVICE\_AREA

Note: The Expe	erimental Result Codes from 5124 to 5139 are reserved for the 1	S 29.061.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	
	D	29.212 [19]
5145	DIAMETER_QOS_RULE_EVENT	
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
5148	DIAMETER_ADC_RULE_EVENT	
5149	DIAMETER_ERROR_NBIFOM_NOT_AUTHORIZED	
Note: The Experimental Result Codes from 5150 to 5159 are reserved for the TS 29.212.		

5401	DIAMETER_ERROR_IMPI_UNKNOWN	
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALI	29.109 [7
	D	
Note: The Ex	sperimental Result Codes from 5404 to 5419 are reserved for the 1	TS 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	
Note: The Ex	perimental Result Codes from 5424 to 5449 are reserved for the 1	TS 29.272.
5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI	
	ON	
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	29.273 [20]
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	29.273 [20]
5453	DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST	
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST	
Note: The Ex	sperimental Result Codes from 5455 to 5469 are reserved for the T	S 29.273.

ntal Result Codes	from 5455 to 5469 are reserved for the TS 29.273.	
5470	DIAMETER_ERROR_SUBSESSION	
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME	29.215 [22]
	NT	
Note: The Expe	erimental Result Codes from 5472 to 5489 are reserved for the	TS 29.215.
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET	
	WORK	29.173 [25]
Note: The Expe	erimental Result Codes from 5491 to 5509 are reserved for the	TS 29.173.
5510	DIAMETER ERROR UNAUTHORIZED REQUESTING ENT	
	ITY	
5511	DIAMETER ERROR UNAUTHORIZED SERVICE	
5512	DIAMETER_ERROR_REQUESTED_RANGE_IS_NOT	
	ALLOWED	
5513	DIAMETER_ERROR_CONFIGURATION_EVENT_STORAG	29.336 [28]
	E_NOT_SUCCESSFUL	
5514	DIAMETER_ERROR_CONFIGURATION_EVENT_NON_EXI	
	STANT	
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	
5516	DIAMETER_ERROR_UNAUTHORIZED_MTC_PROVIDER	
	erimental Result Codes from 5517 to 5529 are reserved for the	TS 29.336.
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	
5531	DIAMETER_ERROR_SC_CONGESTION	
5532	DIAMETER ERROR SM_PROTOCOL	
5533	DIAMETER ERROR TRIGGER REPLACE FAILURE	29.337 [29]
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5535	DIAMETER ERROR ORIGINAL MESSAGE NOT PENDIN	
0000	G	
Note: The Expe	erimental Result Codes from 5536 to 5549 are reserved for the	TS 29.337.
5550	DIAMETER_ERROR_ABSENT_USER	1 2 20.0011
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	_
	erimental Result Codes from 5559 to 5569 are reserved for the	TS 20 338
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
	Experimental Result Codes from 5571 to 5589 are reserved for	
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	1 116 13 29.219.
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	
5592	DIAMETER_ERROR_PFID_UNKNOWN	
		_
5593	DIAMETER_ERROR_APP_REGISTER_REJECT DIAMETER ERROR PROSE MAP REQUEST DISALLOW	
5594		29.343 [32]
EEOE	ED DIAMETED EDDOD MAD DEGLIEST DE IECT	-
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	1
5596	DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN	-
5597	DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_S	
	ET	

5598	DIAMETER_ERROR_MISSING_APPLICATION_DATA			
5599	DIAMETER_ERROR_AUTHORIZATION_REJECT			
5600	DIAMETER_ERROR_DISCOVERY_NOT_PERMITTED			
5601	DIAMETER_ERROR_TARGET_RPAUID_UNKNOWN			
5602	DIAMETER_ERROR_INVALID_APPLICATION_DATA			
Note: The Expe	erimental Result Codes from 5603 to 5609 are reserved for the	ΓS 29.343.		
5610	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION			
5611	DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]		
5612	DIAMETER_ERROR_UE_LOCATION_UNKNOWN			
Note: The Expe	erimental Result Codes from 5613 to 5629 are reserved for the	ΓS 29.344.		
5630	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER			
5631	DIAMETER ERROR ANNOUNCING UNAUTHORIZED IN			
	PLMN			
5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE			
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED			
5634	DIAMETER_ERROR_PROXIMITY_REJECTED			
5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	00 045 [04]		
5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS	29.345 [34]		
	PLMN			
5637	DIAMETER_ERROR_PROXIMITY_CANCELLED			
5638	DIAMETER_ERROR_INVALID_TARGET_PDUID			
5639	DIAMETER_ERROR_INVALID_TARGET_RPAUID			
5640	DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO			
	DE			
5641	DIAMETER_ERROR_INVALID_DISCOVERY_TYPE			
Note: The Expe	erimental Result Codes from 5642 to 5649 are reserved for the	ΓS 29.345.		
5650	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SER			
	VED			
5651	DIAMETER_ERROR_INVALID_EPS_BEARER			
5652	DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAIL ABLE	29.128 [36]		
5653	DIAMETER_ERROR_USER_TEMPORARILY_UNREACHAB			
Note: The Eve	pinental Result Codes from 5654 to 5669 are reserved for the	FS 20 129		
5670	DIAMETER_ERROR_UNKNKOWN_DATA	1 U Z3. 1ZU.		
5671	DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	29.283 [39]		
Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128.				
5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION				
5691	DIAMETER_ERROR_UNKNOWN_V2A_SUBSCRIPTION  DIAMETER_ERROR_V2X_NOT_ALLOWED	29.388 [40]		
	Note: The Experimental Result Codes from 5692 to 5709 are reserved for the TS 29.388.			
INOIE. THE EXPERIMENTAL RESULT COURS HOTH 2092 to 2709 are reserved for the 1.5.29.300.				

## 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

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	New
2004-06	CN#24	NP-040292			Version 2.0.0 presented for information and approval	6.0.0
2004-09	CN#25	NP-040401	001		Correction of Charging application reference	6.1.0
2004-09	CN#25	NP-040401	002		Correction of the Application-Id code	6.1.0
2004-09	CN#25	NP-040401	003		Removal of User Data Request Type AVP	6.1.0
2004-09	CN#25	NP-040412	004	1	Re-numbering of 3GPP specific AVP codes.	6.1.0
2004-12	CN#26	NP-040579	006		Inclusion of missing Cx AVPs	6.2.0
2004-12	CN#26	NP-040580	007	1	Reservation of command code 310	6.2.0
2004-12	CN#26	NP-040579	009	1	Addition of Gmb interface	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	6.2.0
2004-12	CN#26	NP-040579	011		Gq interface allocations	6.2.0
2004-12	CN#26				Addition of Gx interface	6.2.0
2005-03	CN#27	NP-040379	_	1	WLAN Diameter AVP and result codes	6.3.0
2005-03	CIN#21	NP-050047		1	Allocations for Gx interface	0.3.0
			045		Allocations for Gmb interface	
		NP-050039			Allocations for MMS, MM10 Interface	
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.4.0
2003-00	C1#20		0050	4		0.4.0
2005.00	CT#00			1	Addition of Maximum-Number-Accesses AVP	0.5.0
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.5.0
		CP-050310			Addition of Pr reference point to TS 29.230	
		CP-050310			Error code cleanup	
0005.00	OT#00	CP-050310			Addition of Rx ref. point and renaming of Experimental Result Codes	7.0.0
2005-09	CT#29				Addition of GUSS timestamp AVP	7.0.0
2005-12	CT#30				Addition of GBA-Type AVP	7.1.0
		CP-050612			Additional Gmb AVP Allocation	
		CP-050612			Reservation of AVP codes for 32.299	
	0.7	CP-050625	0066		Management of Sh subscriptions	
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.2.0
		CP-060084			User-Data in the response to Sh-Subs-Notif	
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure	
2006-06	CT#32	CP-060302			S-CSCF reselection removal	7.3.0
2006-09	CT#33			3	New AVP Code	7.4.0
		CP-060417	0800		Errors to be sent in response to Sh-Notif	
		CP-060417	0081		Definition of specific Diameter codes for DSAI	
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.5.0
		CP-060562			Addition of Diameter Error Code for Emergency Purposes	
		CP-060555	0087		Allocation of new AVP codes for Gmb	
					AVP code allocations for Rf and Ro interfaces	
					Allocation of Success Result Code Range for Gi Interface	
2007-03	CT#35				C3 requested addition of new AVP code values to 3GPP TS 29.230	7.6.0
		CP-070020			Allocation of new AVP code for DSAI-Tag AVP	
		CP-070020			Allocation of Experimental-Result-Code AVP for Gi Interface	
2007-06	CT#36	CP-070318			Diameter application ID for the Rel-7 Rx interface	7.7.0
		CP-070312			Experimental-Result-Codes for Gmb interface	
		CP-070312			Correction of Diameter AVP code allocation	
2007-09	CT#37		0102		Application ID for Gx protocol	7.8.0
2007-12	CT#38	CP-070743			AVP code reservation for 32.299 in Rel-7	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	8.0.0
			0103		AVP code reservation for 32.299 in Rel-8	7
2008-03	CT#39	CP-080015	0109		Correction of reference to TS 29.140	8.1.0
_000				<del>                                     </del>	AVP code reservation for TS 32.299 in Rel-8	7
		TCP-080019	10111			_
		CP-080019 CP-080019				
		CP-080019	0107	1	Wildcarded Public User Identities	
		CP-080019 CP-080191	0107 0112		Wildcarded Public User Identities  Correction on AVP code allocation reservation for TS 32.299 in Rel-7	
	CT#40	CP-080019 CP-080191 CP-080204	0107 0112 0113	1	Wildcarded Public User Identities  Correction on AVP code allocation reservation for TS 32.299 in Rel-7  Correction on AVP code allocation reservation for TS 32.299	8,2.0
2008-06	CT#40 CT#41	CP-080019 CP-080191 CP-080204 CP-080267	0107 0112 0113 0117	1	Wildcarded Public User Identities  Correction on AVP code allocation reservation for TS 32.299 in Rel-7  Correction on AVP code allocation reservation for TS 32.299  A new Diameter Permanent Failure Code for Gx	8.2.0
2008-06 2008-09	CT#41	CP-080019 CP-080191 CP-080204 CP-080267 CP-080456	0107 0112 0113 0117 0119	1	Wildcarded Public User Identities  Correction on AVP code allocation reservation for TS 32.299 in Rel-7  Correction on AVP code allocation reservation for TS 32.299  A new Diameter Permanent Failure Code for Gx  Emergency Public User Identity Removal	8.2.0 8.3.0
2008-06 2008-09 2008-09	CT#41 CT#41	CP-080019 CP-080191 CP-080204 CP-080267 CP-080456 CP-080460	0107 0112 0113 0117 0119 0121	1 1 1	Wildcarded Public User Identities  Correction on AVP code allocation reservation for TS 32.299 in Rel-7  Correction on AVP code allocation reservation for TS 32.299  A new Diameter Permanent Failure Code for Gx  Emergency Public User Identity Removal  Support of "Loose-Route" indication from HSS	_
2008-06 2008-09 2008-09 2008-09	CT#41 CT#41 CT#41	CP-080019 CP-080191 CP-080204 CP-080267 CP-080456 CP-080460 CP-080460	0107 0112 0113 0117 0119 0121 0122	1 1 1	Wildcarded Public User Identities  Correction on AVP code allocation reservation for TS 32.299 in Rel-7  Correction on AVP code allocation reservation for TS 32.299  A new Diameter Permanent Failure Code for Gx  Emergency Public User Identity Removal  Support of "Loose-Route" indication from HSS  STaMIP Application Id	_
2008-06 2008-09 2008-09 2008-09 2008-09	CT#41 CT#41 CT#41 CT#41	CP-080019 CP-080191 CP-080204 CP-080267 CP-080456 CP-080460 CP-080463	0107 0112 0113 0117 0119 0121 0122 0123	1 1 1	Wildcarded Public User Identities  Correction on AVP code allocation reservation for TS 32.299 in Rel-7  Correction on AVP code allocation reservation for TS 32.299  A new Diameter Permanent Failure Code for Gx  Emergency Public User Identity Removal  Support of "Loose-Route" indication from HSS  STaMIP Application Id  Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment)	8.3.0
2008-06 2008-09 2008-09 2008-09 2008-09 2008-09	CT#41 CT#41 CT#41 CT#41 CT#41	CP-080019 CP-080191 CP-080204 CP-080267 CP-080456 CP-080460 CP-080463 CP-080463	0107 0112 0113 0117 0119 0121 0122 0123 0124	1 1 1 1	Wildcarded Public User Identities  Correction on AVP code allocation reservation for TS 32.299 in Rel-7  Correction on AVP code allocation reservation for TS 32.299  A new Diameter Permanent Failure Code for Gx  Emergency Public User Identity Removal  Support of "Loose-Route" indication from HSS  STaMIP Application Id  Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment)  New AVP Code Assignment for Forking Service Restoration	8.3.0
2008-06 2008-09 2008-09 2008-09	CT#41 CT#41 CT#41 CT#41	CP-080019 CP-080191 CP-080204 CP-080267 CP-080456 CP-080460 CP-080463	0107 0112 0113 0117 0119 0121 0122 0123	1 1 1 1 2	Wildcarded Public User Identities  Correction on AVP code allocation reservation for TS 32.299 in Rel-7  Correction on AVP code allocation reservation for TS 32.299  A new Diameter Permanent Failure Code for Gx  Emergency Public User Identity Removal  Support of "Loose-Route" indication from HSS  STaMIP Application Id  Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment)	8.3.0

2009-03	CT#43	CP-090044	0131	1	Handling LCS Subscription Data	8.5.0
2009-03	CT#43	CP-090026	0132		Update for Restoration	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.5.0
2009-03	CT#43	CP-090033			Appld and command code for Zpn	8.5.0
2009-03	CT#43	CP-090024			AVP codes for S9 protocol	8.5.0
2009-03	CT#43	CP-090024			Diameter AVP Code allocation	8.5.0
2009-03	CT#43	CP-090024			Location of Permanent Failure result code range for the S9 application	8.5.0
2009-03	CT#43	CP-090024		<u> </u>	AVPs for TS 29.273	8.5.0
				1		
2009-03	CT#43	CP-090024			Error code allocation for authentication failure	8.5.0
2009-06	CT#44	CP-090299		4	Update of the AVP Codes	8.6.0
		CP-090299			AVP code reservation for TS 32.299	
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13'	
			0146		Removal of Requesting Node Type from AIR	
		CP-090299	0147		S6b Application ID	
2009-09	CT#45	CP-090530	0149		Allocation of Experimental-Result-Codes for S9 protocol	8.7.0
		CP-090530	0152		AVP code allocation for TS 29.212	
		CP-090531	0150		Update of the AVP type for the User-Id	
		CP-090531			Trace Depth per session	
2009-09	CT#45	CP-090557			AVP code range for charging	9.0.0
2009-12	CT#46	CP-090800		1	ICS-Flag	9.1.0
2000 12	011110	CP-091032			From GMLC-Address to GMLC-Number	- 0.1.0
		0. 00.002	0160		Session-Priority AVP	
			0163		Introduction of SLh application related AVPs and Experimental Result codes	
			0166	-	Missing AVP error codes	1
		CP-090797		1	Introduction of SLg application related AVPs and Application Identifier	+
2010-03	CT#47	CP-090797	0158		Wildcarded Public Identity	9.2.0
2010-03	01#41	CP-100031			Correction on AVP code allocation reservation for TS 32.299 in Rel-9	9.2.0
		CP-100034			AVP code allocation for 29.172	+
		CP-100046		1	GPL_U support in TS 29.109	
		CP-100036 CP-100046	_		Error codes in 29.172 for SLg	
				1		
		CP-100048		1	AVPs in 29.272 for TADS support	
		CP-100040		4	Error codes in 29.272 for Unknown MME	
		CP-100236		4	EPS Subcsriber State and Location Information Request	
		CP-100033			One time notification AVP allocation	
		CP-100046			Addition of the LCS-QoS-Class attribute value	
0040.00	OT#40	CP-100175		4	Introduction of the LCS-Capabilities-Sets AVP in SLh interface	0.0.0
2010-06	CT#48	CP-100263		1	AVP Codes for PCC	9.3.0
		OD 400007	0183		EPS state and location retrieval	
		CP-100287		4	SGmb Application ID	
2040.00	CT#40	CP-100277			New APVs in S6a protocol	0.4.0
2010-09	CT#49	CP-100463		1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces	9.4.0
0040.00	OT#40	CP-100464		_	AVP Codes Allocation for PCC	40.00
2010-09	CT#49	CP-100465			SIPTO Permission Indicator	10.0.0
		CP-100466			Location data including only serving node address	
	0===	CP-100466			AVP for Update-Eff feature	
2010-12	C1#50	CP-100699			Enhanced SRVCC Subscriber Data	10.1.0
		CP-100687			Allocate codes for AVPs on eMPS	
		CP-100683			Allocate codes for AVPs on LIPA	
		CP-100688			Periodic TAU/RAU timer in HSS subscription	4
		CP-100846		1	S6a Error Diagnostic	1
2011-03	CT#51	CP-110051			PDP-Address correction	10.2.0
		CP-110054			Essential correction on the value type of the ELP Application AVPs	
		CP-110087			Minimization of Drive Tests (MDT)	4
		CP-110088			Relay Node Indicator AVPs	1
2011-06	CT#52	CP-110349			Handling of RTR for Emergency Registration	10.3.0
		CP-110347		1	Add AVPs from QSPEC cleanup	
		CP-110359	0226		MIPv4 security parameters on the STa and S6b interfaces	
		CP-110380	0216		MDT user consent	
		CP-110370	0223		AVP Code Allocation for Pre-paging	
		CP-110375		1	PUR-Flags AVP	1
2011-09	CT#53	CP-110559			AVP code alignment with 29.212	10.4.0
		CP-110555			AVP code alignment with 32.299	1
		CP-110554			AVP code alignment with 29.214	1
		CP-110552			Experimental Result Code Alignment with 29.061	1
		CP-110555			Failure code and AVP code alignment with 29.212	1
		CP-110722		2	Priviledged sender	1
2011-09	CT#53	CP-110584			Add vSRVCC updates to the Diameter AVP code table	11.0.0
2011-03	0.700	CP-110504		+ -	AVP code alignment with 32.299	11.0.0
		CP-110579 CP-110555			AVP code alignment with 32.299 AVP code reservation for 29.212	+
2011 12	CT#5 4			1		11 1 0
2011-12	CT#54	CP-110812		1	SWx Restoration AVPs	11.1.0
İ		CP-110812		1	Sy and Sd Application IDs	4
		CP-110775	0262		New AVP codes for MBMS IP unicast encapsulation	
			000-		AL AVE I CARAGOD III : 1 : 1	
		CP-110775 CP-110786			New AVP codes for MBMS IP multicast encapsulation  MME-Realm AVP code allocation	_

		CP-110811			Equivalent PLMN CSG Subscription Request	
		CP-110781			Restoration of Wildcarded-IMPU AVP	
2012-03	CT#55	CP-120025		1	Codes Allocation for AVPs on Initial Attach	11.2.0
		CP-120038			New AVP codes for Absolute Time of MBMS Data Transfer over SGmb	
2012.06	CT#EC	CP-120038			Allocating Diameter AVP codes for TS 29.219 and TS 29.212  Codes Allocation for AVPs on NPLI	11 2 0
2012-06	CT#56	CP-120240 CP-120238			Adding new Diameter AVPs to Diameter table to support Trusted WLAN	11.3.0
		CP-120236	0294	'	Access feature	
		CP-120225	0296	1	Trust Relationship Indication	
		CP-120251	0297		Corrections to reference titles	
		CP-120251	0298		Diameter Code Allocation for TS 29.219	-
		CP-120247			Network Name AVP codes	
		CP-120219			Duplicated AVP names	-
2012-09	CT#57	CP-120481			PS additional number allocation	11.4.0
2012 00	01/101	CP-120473			SMS in MME/SGSN	11.4.0
		CP-120461			AAA Failure Recovery AVP codes	
		CP-120474			Transport Access Type AVP for BBAI	
		CP-120480			Local Time Zone	
		CP-120472			Allocating Application Identifier and command code for Tsp interface	
		CP-120472			Application Identifier, Command Codes and AVP range for S6m interface	
		CP-120667			GMLC-Name	
			0313	1	Reference list correction to align with the corrected TS 29.212 title	
2012-12	CT#58	CP-120731			T4 device triggering via IMS	11.5.0
		CP-120731	0318	1	Codes and Identifier Allocation for T4 Specification	
		CP-120731	0324		AVP Code Allocation for 29.336	
		CP-120731			Diameter AVP code value allocation in TS 29.368	
		CP-120732	0319	2	Application Identifier, Command Codes and AVP codes for SGd, S6c	
		CP-120716	0324	1	AVP name modification in TS 32.299	
		CP-120742	0325	-	UE Time Zone AVP	
		CP-120741		1	Use of Flag instead of Enumerated AVPs	
		CP-120741		-	Use of Flag instead of Enumerated AVPs	
		CP-120743		-	PSI direct routing with restoration procedures	
		CP-120743		-	EPS LocationInformation Support	
2013-03	CT#59	CP-130026			Diameter error code for TS 29.219	11.6.0
		CP-130026			MDT parameters	
2013-03	CT#59	CP-130156		1	New AVPs for Lgd interface	12.0.0
		CP-130030		-	Validity Time of Short Message	
2013-06	CT#60	CP-130288			Add new DER-S6b-flag AVP	12.1.0
					Failure Result Codes Allocation for TS 29.219	
		CP-130292			Diameter AVP codes for new TS 32.299 AVPs	
		CP-130279			Definition of SS Status for Call Barring	
		CP-130380			New SGs-MME-Identity AVP	_
		CP-130291	0348	2	New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over	
		CP-130297	0247	1	Lgd interface Application Port Identifier	
		CP-130297			MTRR on Sh	
		CP-130374			Restoration Priority during SGW and PGW restoration procedures	
		CP-130378			SIPTO permission for Local Network enhancements	
2013-09	CT#61	CP-130454			New MBMS flag for eMBMS restoration	12.2.0
2010 00	01//01	CP-130461	0366		AVP code reservation for TS 32.299 Rel-12	12.2.0
		CP-130460			Allocation of Diameter codes and identifiers for 29.212 and 29.215	-
2013-09		01 100 100	0000	1-	Vendor-specific command code for Trigger-Establishment-Request/Answer	12.2.1
2010 00					corrected	
2013-12	CT#62	CP-130624	0369	t-	New AVP for optimized LCS procedure for combined MME/SGSN	12.3.0
	J 32		0370	1	Adding E-SMLC provided Cell info and Cell Portion	7
		CP-130800			New AVPs for SMS for IMS UE without MSISDN in TS 29.338	1
		CP-130600		1	Allocation of Diameter codes for 32.299	1
		CP-130605		ļ-	Allocation of Diameter codes for 29.212	1
		CP-130639	0380	1-	SGSN CAMEL Subscription Indication	1
2014-03	CT#63	CP-140180			Protocol enhancements for the support of device replace procedure	12.4.0
	1	CP-140035	0384		New AVP for the support of combined MME/SGSN	7
					Definition of WLAN-related AVPs	1
		CP-140023	0383			_
	CT#64	CP-140023 CP-140211	0383 0385	_		12.5.0
	CT#64		1	_	Protocol enhancements to indicate support of device recall and replace by SMS-SC	12.5.0
	CT#64		0385	_	Protocol enhancements to indicate support of device recall and replace by SMS-SC	12.5.0
	CT#64	CP-140211	0385 0402	_	Protocol enhancements to indicate support of device recall and replace by SMS-SC  AVP allocation for Error handling, MTC error diagnostic	12.5.0
	CT#64	CP-140211 CP-140251 CP-140257	0385 0402 0391	1	Protocol enhancements to indicate support of device recall and replace by SMS-SC  AVP allocation for Error handling, MTC error diagnostic  SS-Status AVP Definition	12.5.0
	CT#64	CP-140211 CP-140251 CP-140257 CP-140252	0385 0402 0391 0392	1	Protocol enhancements to indicate support of device recall and replace by SMS-SC  AVP allocation for Error handling, MTC error diagnostic  SS-Status AVP Definition  Definition of AVPs for Network Location in TWLAN	12.5.0
	CT#64	CP-140211 CP-140251 CP-140257 CP-140252 CP-140236	0385 0402 0391 0392 0399	1	Protocol enhancements to indicate support of device recall and replace by SMS-SC  AVP allocation for Error handling, MTC error diagnostic  SS-Status AVP Definition  Definition of AVPs for Network Location in TWLAN  TWAN-BSSID AVP re-naming	12.5.0
	CT#64	CP-140211 CP-140251 CP-140257 CP-140252 CP-140236 CP-140247	0385 0402 0391 0392 0399 0397	1	Protocol enhancements to indicate support of device recall and replace by SMS-SC  AVP allocation for Error handling, MTC error diagnostic  SS-Status AVP Definition  Definition of AVPs for Network Location in TWLAN  TWAN-BSSID AVP re-naming  New AVPs for Trusted WLAN access	12.5.0
2014-06	CT#64	CP-140211 CP-140251 CP-140257 CP-140252 CP-140236 CP-140247 CP-140231	0385 0402 0391 0392 0399 0397 0390	1 1 1 1 1	Protocol enhancements to indicate support of device recall and replace by SMS-SC  AVP allocation for Error handling, MTC error diagnostic  SS-Status AVP Definition  Definition of AVPs for Network Location in TWLAN  TWAN-BSSID AVP re-naming  New AVPs for Trusted WLAN access  Adding Codes for 29.214	12.5.0
2014-06		CP-140211 CP-140251 CP-140257 CP-140252 CP-140236 CP-140247 CP-140231 CP-140515	0385 0402 0391 0392 0399 0397 0390 0403	1 1 1 1 1 1	Protocol enhancements to indicate support of device recall and replace by SMS-SC  AVP allocation for Error handling, MTC error diagnostic  SS-Status AVP Definition  Definition of AVPs for Network Location in TWLAN  TWAN-BSSID AVP re-naming  New AVPs for Trusted WLAN access  Adding Codes for 29.214  T-GRUU restoration	
2014-06		CP-140211 CP-140251 CP-140257 CP-140252 CP-140236 CP-140247 CP-140231 CP-140515 CP-140517	0385 0402 0391 0392 0399 0397 0390 0403 0404	1 1 1 1 1 1 1	Protocol enhancements to indicate support of device recall and replace by SMS-SC  AVP allocation for Error handling, MTC error diagnostic  SS-Status AVP Definition  Definition of AVPs for Network Location in TWLAN  TWAN-BSSID AVP re-naming  New AVPs for Trusted WLAN access  Adding Codes for 29.214  T-GRUU restoration  MB2-C codes	
2014-06		CP-140211 CP-140251 CP-140257 CP-140252 CP-140236 CP-140247 CP-140231 CP-140515	0385 0402 0391 0392 0399 0397 0390 0403 0404 0405	1 1 1 1 1 1 1 1 1	Protocol enhancements to indicate support of device recall and replace by SMS-SC  AVP allocation for Error handling, MTC error diagnostic  SS-Status AVP Definition  Definition of AVPs for Network Location in TWLAN  TWAN-BSSID AVP re-naming  New AVPs for Trusted WLAN access  Adding Codes for 29.214  T-GRUU restoration	

		CP-140513	0408	-	Identification of the HSS	
201// 12	CT#66	CP-140785	0409	1	Editorial: WLAN-offloadability AVP codes added as in CR C4-141648.  New AVP for MBMS restoration	12.7.
2014-12	C1#66	CP-140765	0409		New Diagnostic-Info AVP for MBMS restoration	12.7.
			0410		WLCP key for WLCP signalling protection	
	İ		0411	-	Reset-ID	
	j		0416	1	Code definitions for 32.299	
	ļ		0428	-	Removal of I-WLAN AVPs	
			0429	1	Reference correction	
			0433	-	Code allocation for 29.212	
			0418 0422	_	MDT PLMN List Codes Allocation for PC2 Protocol	_
	ŀ		0422	_	Codes Allocation for PC2 Protocol  Codes Allocation for PC4a Protoco	
	·		0423		Allocation of values for Application ID, Command codes, AVP codes and	_
			0701	3	Experimental-Result codes used in the TS 29.345	
			0434	1	Command Code and Error Code for ProSe Initial Location Information	
	ļ				Retrieval	
			0425	-	Corrections of the type of some AVPs	
	ļ		0426		OFR-Flags AVP code	_
2045.02	OT#07	CD 450045		1	P-CSCF Restoration mechanism new error	40.0
2015-03	CT#67	CP-150015	0447 0437	-	Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	12.8.
	ŀ		0437		AVP codes for GCSE MB2-C	_
	ŀ		0442		New AVPs and range of transient failure result codes in TS 29.214	_
			0438		Allocation of code for Authorized-Discovery-Range AVP (TS 29.344)	1
			0440		Location Update Trigger	
			0441	1	AVP codes allocation for Validity related AVPs for TS 29.345	]
			0443	-	Allocation of codes for the Integrity Checks. Aspect AVPs	
2015-03	CT#67	CP-150039			Diameter Application Identifier for Np protocol	13.0.
2015-06	CT#68	CP-150257		1	AVP code allocation for Match Refresh Timer AVP in TS 29.345	13.1.
	ļ	CP-150247		-	Wrong CR implementation of CR 0416r1	_
	ŀ	CP-150249		1	AVP code allocation for 32.299	-
		CP-150263 CP-150372		1	AVP codes for Access Restriction Data per PLMN IP-SM-GW-Realm	_
2015-09	CT#69	CP-150372		1	Subscription data for extended buffering at the SGW	13.2.
2010 00	01#05	CP-150442		-	Overlapping transaction over S6b	10.2.
		CP-150453		2	Addition of IMSI Group Id AVP definition	
		CP-150449	0465	3	Addition of CP parameter AVP definition	
	ĺ	CP-150431	0470	1	AVP codes for TS 29.212	
		CP-150456		3	AVP definiton for S6t	
2015-12	CT#70	CP-150761		-	Addition of MBMS-Cell-List AVP	13.3.
		CP-150778	_		S6t Application ID and Command Codes	
	ŀ	CP-150778			Bitmask to inform the SCEF of the Monitoring capabilities	
	ŀ	CP-150778 CP-150778		1	AVP codes for MONTE T6a/b interface  Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data	_
		CP-150778	0491	ı	to make a	
		CP-150778	0494	2	Definition of AVP for deletion of all Monitoring events assigned to a	_
			0.0.	_	subscriber (UE)	
		CP-150778	0501	1	Definition of AVP SCEF-ID	1
		CP-150778	0502	2	Service result per Event configuration	
		CP-150770			Emergency PDN connection over untrusted WLAN access	]
		CP-150776	0476	-	EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due	
		OD 450773	0.407	1	to power saving	1
		CP-150776 CP-150776			Mobile Terminating SMS handling for extended Idle mode DRX  Mobile Terminating SMS handling for extended Idle mode DRX – Additional	1
		GF-150//6	0498		Option   Opt	
		CP-150777	0477	3	Commands and codes for Np protocol	1
		CP-150772			Definition of ProSe-Metadata-Index-Mask	1
		CP-150772		-	Addition of AVPs and result-codes	1
		CP-150772		<u> </u>	Addition of AVP used in match report procedure for eProSe-Ext-CT	
		CP-150754	0481	1	Allowed WAF and/or WWSF Identities	
		CP-150773		-	Add the default access type to 3GPP specific AVP	
		CP-150781		1	AVP code allocation for "UE Usage Type"	
		CP-150755		-	Metadata in Match-Report	4
		CP-150755		-	New Group AVP for ProSe direct discovery procedures	1
		CP-150771		1	Definition of AVP for AESE-CT	-
	-	CP-150771		1	Command codes and AVP range for TS 29.154 and TS 29.153	-
2016-03	CT#71	CP-150776		1	AVP codes for Indoor Positioning support in SLg/Lgd	13.4.
ZU 10-U3	C1#/T	CP-160041 CP-160041		1	Application ID for St  Correction on TS numbers	13.4.
	}	CP-160041 CP-160041			AVPs for the Rx Diameter application	1
					μενε ο τοι τιο τεκ Ειαπιστοι αρρισατιστ	1
		CP-160041			AVP code reservation for 32.299	1

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		CP-160029 CP-160029		3	New AVP assignment for MONTE Change of type of Monitoring-Duration AVP to represent an absolute time	
		CP-160029		-	Remove the default access AVP	
		CP-160035		1_	Specific AVP codes for NBIFOM	-
		CP-160030		-	Alert procedure from MME/SGSN to SMS-GMSC for MT SMS to UE using eDRX	
		CP-160037	0512	-	ePDG retrieval of WLAN Location Information	1
		CP-160033			Definition of AVP Authorization of NIDD	
	Ï	CP-160033			New PDN-Type for Cellular IoT	
		CP-160036	0517	1	Monitoring update and Reporting of update result	
		CP-160036	0519	3	Allocation of new Diameter Application ID and commands code for PC2 protocol	
2016-03	CT#71	CP-160018	0515	1	AVP code reservation for 32.299	14.0.0
2016-06	CT#72	CP-160236	0526	1	Command Codes for 29.212	14.1.0
2016-06	CT#72	CP-160236		-	AVP code range 3900-3999	14.1.0
2016-06	CT#72	CP-160236		1	New AVPs in TS 29.214	14.1.0
2016-06	CT#72	CP-160236		-	AVP codes for 29.212	14.1.0
2016-06 2016-06	CT#72 CT#72	CP-160232 CP-160232			AVP Codes for 29.343 Addition of new AVPs for ProSe direct discovery security and open ProSe	14.1.0 14.1.0
				3	direct discovery with application-controlled extension	
2016-06	CT#72	CP-160232		-	Reserved Experimental Result Codes for TS 29.343	14.1.0
2016-06 2016-06	CT#72 CT#72	CP-160232 CP-160228		-	Assignment of application ID and command code for PC2 reference point IANA Command Code Registration	14.1.0
2016-06	CT#72	CP-160228		1	CloT new commands and Diameter error	14.1.0
2016-06	CT#72	CP-160228		<u>'</u>	NIDD authorisation update	14.1.0
2016-06	CT#72	CP-160228		3	Serving PLMN Rate Control	14.1.0
2016-06	CT#72	CP-160228		-	New AVP for APN Rate Control	14.1.0
2016-06	CT#72	CP-160233		1	Renaming of Validity-Time AVP	14.1.0
2016-06	CT#72	CP-160233			New AVPs allocated for 29.153 and 29.154	14.1.0
2016-06	CT#72	CP-160225		3	SCEF Realm	14.1.0
2016-06	CT#72	CP-160225		-	Cleanup up on MONTE AVP's	14.1.0
2016-06	CT#72	CP-160227		-	IANA assigned application Id and command code values	14.1.0
2016-06	CT#72	CP-160227	0547	2	Allocation of AVP codes and Experimental Result codes for Diameter Data Management application	14.1.0
2016-06	CT#72	CP-160231	0553	1	3GPP specific AVP for NBIFOM	14.1.0
2016-06	CT#72		0555	1	Shared Subscription data update	14.1.0
2016-09	CT#73	CP-160424		_	Missing AVP codes and Experimental-Result codes for T6a	14.2.0
2016-09	CT#73	CP-160424		1	Allocate of AVP Handling of Exception Reports in the Core Network	14.2.0
2016-09	CT#73	CP-160419		1	AVP codes for 32.299	14.2.0
2016-09 2016-09	CT#73 CT#73	CP-160419 CP-160419		1	AVP code for 29.214 AVP code for 29.212	14.2.0 14.2.0
2016-09	CT#73	CP-160419		1	STa and SWm extensions for IMEI check	14.2.0
2016-12	CT#74	CP-160650		<u>-</u>	AVP code alignment with 29.272	14.3.0
2016-12	CT#74		0579	1	AVPs for Handover of Emergency PDN Connections	14.3.0
2016-12	CT#74	CP-160678	0583	1	New Diameter Application Code, AVP and Result Code for V2X	14.3.0
2016-12	CT#74	CP-160653	0585	1	Renaming of Emergency-Indication AVP	14.3.0
2016-12	CT#74	CP-160670			New AVPs for TS 29.214	14.3.0
2016-12	CT#74	CP-160660			S6t-HSS-Cause	14.3.0
2016-12	CT#74	CP-160669		-	AVP codes for 29.468	14.3.0
2017-03	CT#75	CP-170039 CP-170039			Enhanced Coverage	14.4.0
2017-03 2017-03	CT#75	CP-170039		1	Inter-RAT PDN-Continuity NIDD Authorization revocation	14.4.0 14.4.0
2017-03	CT#75	CP-170039		1	Loss Of Connectivity Reason	14.4.0
2017-03	CT#75	CP-170036	0602	1	Subscription parameters for eDRX	14.4.0
2017-03	CT#75	CP-170036			Support of long and short Macro eNodeB IDs	14.4.0
2017-03	CT#75	CP-170025		-	AVP codes for 32.299	14.4.0
2017-03	CT#75	CP-170043	0598		New AVP for UE-PC5-AMBR	14.4.0
2017-03	CT#75	CP-170043			Correct Diameter Result Code Allocated for V2X	14.4.0
2017-03	CT#75	CP-170049		1	AVPs for ERP in 29.273	14.4.0
2017-03	CT#75	CP-170052		-	Update of the name of MCPTT-User-Profile-Data AVP	14.4.0
2017-03 2017-06	CT#75 CT#76	CP-170045 CP-171029			Support of MCVideo and MCData Services  New AVP for Group Based MONTE Event Configuration via HSS	14.4.0 14.5.0
2017-06	CT#76	CP-171029		-	New AVP for Group Based MONTE EVERT Configuration via HSS  New AVPs in 29.272 for MBSFN MDT	14.5.0
2017-06	CT#76	CP-171017		<b> </b> -	AVP codes for 29.212	14.5.0
2017-06	CT#76	CP-171026		-	AVP codes for 29.214	14.5.0
2017-06	CT#76	CP-171030			AVP code allocation for 29.172 for Location Services for CioT	14.5.0
2017-06	CT#76	CP-171030	0613	-	Addition of APN-Validity-Time AVP	14.5.0
2017-06	CT#76	CP-171026			AVP codes for 32.299	14.5.0
2017-09	CT#77	CP-172018			Reliable Data Service Success cause	14.6.0
2017-09	CT#77	CP-172018			Reliable Data Service	14.6.0
2017-09	CT#77	CP-172026		1	Enhancements for NAPS  AVP codes for TS 20 210, TS 20 212 and TS 20 214	15.0.0
2017-12 2017-12	CT#78 CT#78	CP-173011 CP-173033	0625	1	AVP codes for TS 29.219, TS 29.212 and TS 29.214 Suggested Network Configuration Request	15.1.0 15.1.0
2011-12	U1π10	01 -170000	0013	<u> </u>	104ggcotod Network Corniguration Request	10.1.0

2017-12   CT#78   CP-173028   0620   -	15.1.0 15.1.0
2017-12 CT#78 CP-173032 0627 - New AVP for PC5-tech for WLAN based ProSe Direct Discovery	
2010-12 C1970 C1-175032 0027 New AV 1011 C3-tech 10 WEAR based 1 100e blied biscovery	15.1.0
	15.2.0
2018-03   CT#79   CP-180020   0629   1   AVP codes for 32.299	15.2.0
2018-03   CT#79   CP-180025   0630   -   IMSI-Group-Id retrieval	15.2.0
2018-06 CT#80 CP-181120 0631 1 Supported-Services and Supported-Monitoring-Events	15.3.0
2018-06   CT#80   CP-181120   0632   1   New AVPs in TS 29.212 for eVoLP	15.3.0
2018-06   CT#80   CP-181120   0633   1   Reserve Diameter codes for TS 29.561	15.3.0
2018-06 CT#80 CP-181120 0635 - Application ID for Diameter Nta	15.3.0
2018-06 CT#80 CP-181120 0636 1 AVP codes for TS 29.154	15.3.0
2018-06 CT#80 CP-181120 0637 1 New AVP for subscription for Aerial UE in 3GPP system	15.3.0
2018-06   CT#80   CP-181120   0639   1   AVP codes for 32.299	15.3.0
2018-06 CT#80 CP-181124 0640 1 Subscription data for ciphering keys	15.3.0
2018-06 CT#80 CP-181127 0634 - AVP code for NIR-Flags	15.3.0
2018-09 CT#81 CP-182080 0642 - AVP code for TS 29.214	15.4.0
2018-09 CT#81 CP-182073 0643 - AVP codes for TS 29.468	15.4.0
2018-09 CT#81 CP-182073 0644 - Update tables due to N6	15.4.0
2018-09 CT#81 CP-182073 0645 1 Change of value type of Maximum Packet Loss Rate	15.4.0
2018-09 CT#81 CP-182073 0646 1 Subscribed PTW length	15.4.0
2018-09 CT#81 CP-182073 0647 1 Policy Update when UE suspends	15.4.0
2018-09 CT#81 CP-182073 0648 1 Command Codes for Nta Diameter Application	15.4.0
2018-09 CT#81 CP-182084 0649 - Core Network Restrictions	15.4.0
2018-09 CT#81 CP-182071 0651 - DSR-Flag for eDRX-Cycle-Length	15.4.0
2018-12   CT#82   CP-183092   0653   1   Interworking-5GS-Indicator AVP definition	15.5.0
2018-12   CT#82   CP-183095   0652   1	15.5.0
2018-12 CT#82 CP-183102 0654 - Wrong AVP type in Access-Restriction-Data	15.5.0
2018-12 CT#82 CP-183102 0655 - NIDD group authorization	15.5.0
2019-03 CT#83 CP-190036 0656 1 New AVP for MB2	15.6.0
2019-03 CT#83 CP-190036 0657 1 RTR-Flags	15.6.0
2019-03 CT#83 CP-190037 0658 1 Handling of multiple external IDs for the same UE	15.6.0
2019-09 CT#85 CP-192125 0662 - Add P-CSCF subscription info to Restoration information	16.0.0
2019-09 CT#85 CP-192122 0661 1 Event type PDN Connectivity Status	16.0.0
2019-09 CT#85 CP-192122 0664 - Ethernet PDN Type AVP	16.0.0
2019-09 CT#85 CP-192121 0663 1 Communication pattern enhancement	16.0.0
2019-12 CT#86 CP-193035 0669 1 UE Status Suspend	16.1.0
2019-12 CT#86 CP-103038 0666 1 New Error Code for TS 29.336	16.1.0
2019-12 CT#86 CP-103038 0671 - Subscribed ARPI AVP	16.1.0
2019-12 CT#86 CP-103038 0672 - Network Parameter Configuration Reporting AVP	16.1.0
2019-12 CT#86 CP-103038 0673 2 New AVP defiened in TS 29.214 for Callee-Information	16.1.0
2019-12 CT#86 CP-193040 0667 - S-CSCF restoration after registration timer expiry	16.1.0
2019-12 CT#86 CP-193052 0665 1 Battery Indication for Communication pattern enhancement	16.1.0
2020-03 CT#87e CP-200041 0676 1 AVP codes for 32.299	16.2.0
2020-03   CT#87e   CP-200041   0678   -   New AVPs in TS 29.214	16.2.0
2020-03 CT#87e CP-200027 0677 3 Addition of AVP code for IAB-Node-Information AVP	16.2.0
2020-03   CT#87e   CP-200036   0679   -   Subscription data for NR V2X	16.2.0
2020-03   CT#87e   CP-200050   0680   -   Reachability Cause	16.2.0
2020-06 CT#88e CP-201016 0685 - SMSF Address	16.3.0
2020-06 CT#88e CP-201049 0681 - Authorized PLMNs and RATs for V2X	16.3.0
2020-06   CT#88e   CP-201049   0682   -   Subscribed PC5 QoS Parameters for NR V2X	16.3.0
2020-09 CT#89e CP-202094 0687 1 AVP Codes for TS 29.214	16.4.0
2020-12 CT#90e CP-203032 0688 - Extended Reference ID	16.5.0

## History

	Document history							
V16.3.0	November 2020	Publication						
V16.4.0	November 2020	Publication						
V16.5.0	January 2021	Publication						