ETSI TS 129 230 V16.3.0 (2020-11)



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 16.3.0 Release 16)



Reference RTS/TSGC-0429230vg30 Keywords 5G,GSM,LTE,UMTS

ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

The present document can be downloaded from: <u>http://www.etsi.org/standards-search</u>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the prevailing version of an ETSI deliverable is the one made publicly available in PDF format at www.etsi.org/deliver.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx

If you find errors in the present document, please send your comment to one of the following services: https://portal.etsi.org/People/CommitteeSupportStaff.aspx

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2020. All rights reserved.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are trademarks of ETSI registered for the benefit of its Members. **3GPP™** and **LTE™** are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

oneM2M[™] logo is a trademark of ETSI registered for the benefit of its Members and of the oneM2M Partners.

GSM® and the GSM logo are trademarks registered and owned by the GSM Association.

Intellectual Property Rights

Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (https://ipr.etsi.org/).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

Legal Notice

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

The present document may refer to technical specifications or reports using their 3GPP identities. These shall be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between 3GPP and ETSI identities can be found under http://webapp.etsi.org/key/queryform.asp.

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
Lega	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	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	ory	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:

Version x.y.z

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: http://www.iana.org/assignments/enterprise-numbers
[12]	IANA's AAA parameters register: ftp://ftp.iana.org/assignments/aaa-parameters/
[13]	3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".
[14]	3GPP TS 32.296: "Telecommunication management; Charging management; Online Charging System (OCS): Applications and interfaces".
[15]	3GPP TS 29.210, Release 6: "Charging rule provisioning over Gx interface".
[16]	3GPP TS 29.140, Release 6: "Multimedia Messaging Service (MMS); MM10 interface based on

[17]	3GPP TS 29.211, Release 6: "Rx Interface and Rx/Gx signalling flows".
[18]	3GPP TS 29.214: "Policy and Charging Control over Rx reference point".
[19]	3GPP TS 29.212: "Policy and Charging Control (PCC); Reference points".
[20]	3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces".
[21]	3GPP TS 29.272: "Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol".
[22]	3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point; Stage 3".
[23]	IETF RFC 5516: "Diameter Command Code Registration for Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)".
[24]	3GPP TS 29.172: "Location Services (LCS); Evolved Packet Core (EPC) LCS Protocol (ELP) between the Gateway Mobile Location Centre (GMLC) and the Mobile Management Entity (MME); SLg interface".
[25]	3GPP TS 29.173: "Location Services (LCS); Diameter-based SLh interface for Control Plane LCS".
[26]	3GPP TS 29.219: "Policy and Charging Control: Spending Limit Reporting over Sy reference point".
[27]	3GPP TS 29.368: "Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS)".
[28]	3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications".
[29]	3GPP TS 29.337: "Diameter-based T4 interface for communications with packet data networks and applications".
[30]	3GPP TS 29.338: "Diameter based protocols to support SMS capable MMEs".
[31]	3GPP TS 29.468: "Group Communication System Enablers for LTE (GCSE_LTE)".
[32]	3GPP TS 29.343: "Proximity-services (ProSe) function to ProSe application server aspects (PC2)".
[33]	3GPP TS 29.344: "Proximity-services (ProSe) Function to Home Subscriber Server (HSS) aspects".
[34]	3GPP TS 29.345: "Inter-Proximity-services (Prose) function signalling aspects; Stage 3".
[35]	3GPP TS 29.217: "Policy and Charging Control over Np reference point".
[36]	3GPP TS 29.128: "Diameter based T6a/T6b interface between the MME/SGSN and the SCEF".
[37]	3GPP TS 29.153: "Service exposure functionality between SCEF and RCAF reference point".
[38]	3GPP TS 29.154: "Service capability exposure functionality over Nt Reference point".
[39]	3GPP TS 29.283: "Diameter Data Management applications".
[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	I name	Abbreviation	-	ecified in GPP TS		
300	User-Authorization-Red	quest/-Answer	UAR/UAA				
301	Server-Assignment-Re	quest/-Answer	SAR/SAA				
302	Location-Info-Request/	-Answer	LIR/LIA				
303	Multimedia-Auth-Requi	est/-Answer	MAR/MAA	29	9.229 [2]		
304	Registration-Termination	on-Request/-	RTR/RTA				
	Answer						
305	Push-Profile-Request/-	Answer	PPR/PPA				
306	User-Data-Request/-Ar	nswer	UDR/UDA		29.329 [4]		
307	Profile-Update-Reques	t/-Answer	PUR/PUA	20		29 [4]	
308	Subscribe-Notifications	s-Request/-Answer	SNR/SNA	23	7.329 [4]		
309	Push-Notification-Requ	uest/-Answer	PNR/PNA				
310	Boostrapping-Info-Req	uest/Answer	BIR/BIA	29	9.109 [7]		
•	311	Message-Process-I	Request/Answer	,	MPR/MI	PA	29.140
	312	GBAPush-Info-Req	uest/Answer		GPR/G	PI	29.109

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

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 8388637 TDF-Session-Request/Answer TSR/TSA 8388637 TSSF-Notification-Request/Answer TNR/TNA 8388638 Update-VCSG-Location-Request/Answer UVR/UVA 8388642 Cancel-VCSG-Location-Request/Answer DR/DAA 8388643 Device-Notification-Request/Answer DR/DAA 8388640 Device-Notification-Request/Answer DR/DAA 8388718 Configuration-Information-Request/Answer CIR/CIA 8388719 Reporting-Information-Request/Answer RIR/RIA 29.336 [28] 8388643 Device-Trigger-Request/Answer DR/DTA 29.337 [29] 8388644 Delivery-Report-Request/Answer DR/DTA 29.337 [29] 8388645 MO-Forward-Short-Message Request/Answer R	Command code value	Command name	Abbreviation	Specified in 3GPP TS	
S388622 LCS-Routing-Info-Request/Answer RIR/RIA 29.173 [25]	8388620	Provide-Location-Request/Answer	PLR/PLA		
8388635 Spending-Limit-Request/Answer SLR/SLA	8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]	
8388636 Spending-Status-Notification-Request/Answer SNR/SNA Request/Answer TSR/TSA 8388637 TDF-Session-Request/Answer TSR/TSA 29.212 [19] 8388638 TSSF-Notification-Request/Answer TNR/TNA 29.212 [19] 8388638 Update-VCSG-Location-Request/Answer UVR/UVA 8388642 Cancel-VCSG-Location-Request/Answer UVR/UVA 29.272 [21] 8388639 Device-Action-Request/Answer DAR/DAA 29.368 [27] 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 SIR/SIA 29.336 [28] 8388719 Reporting-Information-Request/Answer NIR/NIA 8388726 NIDD-Information-Request/Answer NIR/NIA 8388643 Device-Trigger-Request/Answer DTR/DTA 29.336 [28] 8388644 Delivery-Report-Request/Answer DRR/DRA 29.337 [29] 29.338 [30] Reporting-Information-Request/Answer DRR/DRA 29.337 [29] 29.338 [30] 2	8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]	
S388636 Spering-Status-Nomication-Request/Answer SNR/SNA R8388637 TDF-Session-Request/Answer TSR/TSA 29.212 [19] 8388638 Update-VCSG-Location-Request/Answer UVR/UVA 8388638 Update-VCSG-Location-Request/Answer UVR/UVA 8388642 Cancel-VCSG-Location-Request/Answer UVR/UVA 29.272 [21] 8388640 Device-Action-Request/Answer DAR/DAA 29.368 [27] 29.388641 Subscriber-Information-Request/Answer SIR/SIA 29.336 [28] 8388718 Configuration-Information-Request/Answer SIR/SIA 29.336 [28] 8388719 Reporting-Information-Request/Answer NIR/NIA 29.336 [28] 8388726 NIDD-Information-Request/Answer NIR/NIA 29.336 [28] 8388643 Device-Trigger-Request/Answer DTR/DTA 8388644 Delivery-Report-Request/Answer DTR/DTA 29.337 [29] 8388645 MO-Forward-Short-Message FR/TFA Request/Answer Request/Answer R8388646 MT-Forward-Short-Message TFR/TFA Request/Answer R8388647 Send-Routing-Info-for-SM-Request/Answer ALR/ALA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status-Request/Answer ALR/ALA 8388664 Trigger-Establishment-Request/Answer GAR/GAA 8388665 GCS-Notification-Request/Answer GAR/GAA 29.468 [31] 8388666 ProSe-Subscriber-Information-Request/Answer PR/PNA 29.344 [33] 8388668 ProSe-Subscriber-Information-Request/Answer PR/PNA 29.345 [34] 8388668 ProSe-Discovery-Request/Answer PAR/PAA 29.345 [34]	8388635	Spending-Limit-Request/Answer	SLR/SLA	20 240 [20]	
8388731 TSSF-Notification-Request/Answer TNR/TNA 29.212 [19] 8388638 Update-VCSG-Location-Request/Answer UVR/UVA 29.272 [21] 8388642 Cancel-VCSG-Location-Request/Answer CVR/CVA 29.272 [21] 8388639 Device-Notification-Request/Answer DAR/DAA 29.368 [27] 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 RIR/RIA 29.336 [28] 8388719 Reporting-Information-Request/Answer NIR/NIA 29.336 [28] 8388726 NIDD-Information-Request/Answer DTR/DTA 29.337 [29] 8388643 Device-Trigger-Request/Answer DR/DRA 29.337 [29] 8388644 Delivery-Report-Request/Answer DR/DRA 29.337 [29] 8388645 MO-Forward-Short-Message Request/Answer TFR/TFA Request/Answer SRR/SRA Request/Answer 29.338 [30] 8388647 Send-Routing-Info-for-SM- Request/Answer RDR/RDA 29.348 [31] 8388668 <td>8388636</td> <td></td> <td>SNR/SNA</td> <td>29.219 [26]</td>	8388636		SNR/SNA	29.219 [26]	
8388638 Update-VCSG-Location-Request/Answer UVR/UVA 8388642 Cancel-VCSG-Location-Request/Answer CVR/CVA 8388639 Device-Action-Request/Answer DAR/DAA 8388640 Device-Notification-Request/Answer DNR/DNA 8388641 Subscriber-Information-Request/Answer SIR/SIA 8388718 Configuration-Information-Request/Answer CIR/CIA 8388719 Reporting-Information-Request/Answer RIR/RIA 8388726 NIDD-Information-Request/Answer NIR/NIA 8388643 Device-Trigger-Request/Answer DTR/DTA 8388644 Delivery-Report-Request/Answer DRR/DRA 8388645 MO-Forward-Short-Message Request/Answer DFR/OFA 8388646 MT-Forward-Short-Message Request/Answer TFR/TFA 8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388669 Trigger-Establishment-Request/Answer GRR/GAA 8388661 Trigger-Establishment-Request/Answer GRR/GAA 8388666 GCS-Notification-Request/Answer	8388637	TDF-Session-Request/Answer	TSR/TSA	20 242 [40]	
8388642 Cancel-VCSG-Location-Request/Answer CVR/CVA 29.272 [21] 8388639 Device-Action-Request/Answer DAR/DAA 29.368 [27] 8388640 Device-Notification-Request/Answer DNR/DNA 29.368 [27] 8388641 Subscriber-Information-Request/Answer SIR/SIA 29.336 [28] 8388718 Configuration-Information-Request/Answer RIR/RIA 29.336 [28] 8388719 Reporting-Information-Request/Answer NIR/NIA 29.336 [28] 8388726 NIDD-Information-Request/Answer NIR/NIA 29.337 [29] 8388643 Device-Trigger-Request/Answer DRR/DRA 29.337 [29] 8388644 Delivery-Report-Request/Answer DRR/DRA 29.337 [29] 8388645 MO-Forward-Short-Message Request/Answer TFR/TFA 29.338 [30] 8388646 MT-Forward-Short-Message Request/Answer SRR/SRA 29.338 [30] 8388647 Send-Routing-Info-for-SM-Request/Answer RRQuest/Answer ALR/ALA 8388648 Alert-Service-Centre-Request/Answer RDR/RDA 8388669 Trigger-Establishment-Request/Answer GRR/GAA <td>8388731</td> <td>·</td> <td></td> <td>29.212 [19]</td>	8388731	·		29.212 [19]	
8388639 Device-Action-Request/Answer DAR/DAA 8388640 Device-Notification-Request/Answer DNR/DNA 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 29.337 [29] 8388643 Device-Trigger-Request/Answer DTR/DTA 29.337 [29] 8388644 Delivery-Report-Request/Answer DRR/DRA 29.337 [29] 8388645 MO-Forward-Short-Message Request/Answer DFR/OFA Request/Answer SRR/SRA 8388646 MT-Forward-Short-Message Request/Answer SRR/SRA 29.338 [30] 8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA 29.338 [30] 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 29.338 [30] 8388669 Trigger-Establishment-Request/Answer GAR/GAA 29.215 [30] 8388661 GCS-Action-Request/Answer GNR/GNA 29.468 [31] <	8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	20 272 [24]	
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 29.336 [28] 8388643 Device-Trigger-Request/Answer DTR/DTA 8388644 Delivery-Report-Request/Answer DRR/DRA 8388645 MO-Forward-Short-Message Request/Answer DFR/OFA 8388646 MT-Forward-Short-Message Request/Answer TFR/TFA 8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status-Request/Answer REQUest/Answer 8388660 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GNR/GNA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.344 [33]	8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]	
Subscriber-Information-Request/Answer SIR/SIA 29.336 [28]	8388639	Device-Action-Request/Answer	DAR/DAA		
S388718	8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]	
Request/Answer Rik/RiA 29.336 [28]	8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]	
8388719 Reporting-Information-Request/Answer RIR/RIA 29.336 [28] 8388726 NIDD-Information-Request/Answer NIR/NIA 8388643 Device-Trigger-Request/Answer DTR/DTA 8388643 Delivery-Report-Request/Answer DRR/DRA 8388644 Delivery-Report-Request/Answer DRR/DRA 8388645 MO-Forward-Short-Message Request/Answer OFR/OFA 8388646 MT-Forward-Short-Message Request/Answer TR/TFA 8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status-Request/Answer REDR/RDA 8388650 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer HIR/PIA 29.346 [31] 8388664 ProSe-Subscriber-Data-Request/Answer Request/Answer PNR/PNA 8388665 Update-ProSe-Subscriber-Data-Request/Answer PNR/PNA 8388666 ProSe-Notify-Request/Answe	8388718		CIR/CIA		
8388643 Device-Trigger-Request/Answer DTR/DTA 8388644 Delivery-Report-Request/Answer DRR/DRA 8388645 MO-Forward-Short-Message Request/Answer OFR/OFA Request/Answer 8388646 MT-Forward-Short-Message Request/Answer TFR/TFA Request/Answer 8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA Request/Answer 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status-Request/Answer RDR/RDA Request/Answer 8388656 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA PIR/PIA 29.344 [33] 8388665 Update-ProSe-Subscriber-Data-Request/Answer PNR/PNA PNR/PNA 29.344 [33] 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA Request/Answer 8388668 ProSe-Authorization-Request/Answer PAR/PAA 29.345 [34]	8388719		RIR/RIA	29.336 [28]	
8388644 Delivery-Report-Request/Answer DRR/DRA 29.337 [29] 8388645 MO-Forward-Short-Message Request/Answer OFR/OFA Request/Answer 8388646 MT-Forward-Short-Message Request/Answer TFR/TFA Request/Answer 8388647 Send-Routing-Info-for-SM- Request/Answer SRR/SRA Request/Answer 29.338 [30] 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status- Request/Answer RDR/RDA 8388650 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information- Request/Answer PIR/PIA Request/Answer 29.344 [33] 8388665 Update-ProSe-Subscriber-Data- Request/Answer PNR/PNA 29.344 [33] 8388666 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]	8388726	NIDD-Information-Request/Answer	NIR/NIA		
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 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 29.468 [31] 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 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]	8388643	Device-Trigger-Request/Answer	DTR/DTA		
Request/Answer	8388644	Delivery-Report-Request/Answer	DRR/DRA	29.337 [29]	
8388646 MT-Forward-Short-Message Request/Answer TFR/TFA 8388647 Send-Routing-Info-for-SM- Request/Answer SRR/SRA 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 29.468 [31] 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 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]	8388645		OFR/OFA		
8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status-Request/Answer RDR/RDA 8388650 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 29.3468 [31] 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 29.344 [33] 8388666 ProSe-Notify-Request/Answer PNR/PNA 29.344 [33] 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA 29.344 [33] 8388668 ProSe-Authorization-Request/Answer PAR/PAA 29.345 [34]	8388646	MT-Forward-Short-Message	TFR/TFA		
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 29.468 [31] 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 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]	8388647	Send-Routing-Info-for-SM-	SRR/SRA	29.338 [30]	
Request/Answer 8388656 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA Request/Answer B388665 Update-ProSe-Subscriber-Data-Request/Answer PNR/PNA 29.344 [33] 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA Request/Answer 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388648		ALR/ALA		
8388656 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 8388663 GCS-Notification-Request/Answer GNR/GNA 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388649		RDR/RDA		
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 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]	8388656		TER/TEA	29.215 [30]	
8388663 GCS-Notification-Request/Answer GNR/GNA 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388662	GCS-Action-Request/Answer	GAR/GAA		
Request/Answer 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPAREQUEST/Answer 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSARequest/Answer 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388663	GCS-Notification-Request/Answer	GNR/GNA	29.468 [31]	
8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388664		PIR/PIA		
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]	8388665	Update-ProSe-Subscriber-Data-	UPR/UPA		
Request/Answer 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388666		PNR/PNA	29.344 [33]	
8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388713		PSR/PSA		
29.345 [34]	8388668		PAR/PAA		
	8388669	ProSe-Discovery-Request/Answer	PDR/PDA	29.345 [34]	
	8388670	ProSe-Match-Request/Answer	PMR/PMA	- 1- 1	

0200674	DroCo Motob Donort Info	PIR/PIA	
8388671	ProSe-Match-Report-Info- Request/Answer		
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	1
8388674	ProSe-Alert-Request/Answer	ALR/ALA	1
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	1
8388676	ProXimity-Action-Request/Answer	PXR/PXA	
8388727	ProXimity-Application-Request/Answer	XAR/XAA	29.343 [32]
8388720	Non-Aggregated-RUCI-Report- Request/Answer	NRR/NRA	
8388721	Aggregated-RUCI-Report- Request/Answer	ARR/ARA	29.217 [35]
8388722	Modify-Uecontext-Request/Answer	MUR/MUA	1
8388724	Network-Status-Request/Answer	NSR/NSA	00.450.50=1
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	1
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	00 454 (05)
8388736	Event-Reporting-Request/Answer	ERR/ERA	- 29.154 [38]
			1

6 Vendor identifier

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

6.1 3GPP's vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	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	
	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	
	Max-Requested-Bandwidth Charging-Characteristics	Integer	
	Charging-Nodes	Grouped	
	Primary-OCS-Charging-Function-Name	DiameterIdentity	
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
	3GPP-AAA-Server-Name	DiameterIdentity	
	Maximum-Number-Accesses	Unsigned32	
Note 1	1: The AVP codes from 320 to 399 are reserved for TS 29.234	·	<u>'</u>
	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	
409	GUSS-Timestamp	Time	
410	GBA-Type	Enumerated	29.109 [7]
	UE-Id	OctetString	
	UE-Id-Type UICC-App-Label	Enumerated OctetString	
	UICC-ME	Enumerated	
415	Requested-Key-Lifetime	Time	
	Private-Identity-Request	Enumerated	
	GBA-Push-Info NAF-SA-Identifier	OctetString OctetString	
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	
	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>		
513	Specific-Action Max-Requested-Bandwidth	Enumerated	

			1
	Max-Requested-Bandwidth-DL	Unsigned32	
	Max-Requested-Bandwidth-UL	Unsigned32	
	Media-Component-Description	Grouped	
	Media-Component-Number	Unsigned32	
	Media-Sub-Component AVP	Grouped	
520	Media-Type	Enumerated	
521	RR-Bandwidth	Unsigned32	
522	RS-Bandwidth	Unsigned32	
523	SIP-Forking-Indication	Enumerated	
524	Codec-Data	OctetString	
525	Service-URN	OctetString	
526	Acceptable-Service-Info	Grouped	
527	Service-Info-Status	Enumerated	
528	MPS-Identifier	OctetString	
	AF-Signalling-Protocol	Enumerated	
	Sponsored-Connectivity-Data	Grouped	
	Sponsor-Identity	OctetString	
	Application-Service-Provider-Identity	OctetString	
	Rx-Request-Type	Enumerated	
	Min-Requested-Bandwidth-DL	Unsigned32	
	Min-Requested-Bandwidth-UL	Unsigned32	
	Required-Access-Info	Enumerated	
	IP-Domain-Id	OctetString	
	GCS-Identifier	OctetString	
	Sharing-Key-DL	Unsigned32	
	Sharing-Key-UL	Unsigned32	
	Retry-Interval	Unsigned32	
	Sponsoring-Action	Enumerated	
	Max-Supported-Bandwidth-DL	Unsigned32	
	Max-Supported-Bandwidth-UL	Unsigned32	
	Min-Desired-Bandwidth-DL	Unsigned32	
	Min-Desired-Bandwidth-UL	Unsigned32	
	MCPTT-Identifier	OctetString	
	Service-Authorization-Info	Unsigned32	,
	Media-Component-Status	Unsigned32	
	Priority-Sharing-Indicator	Enumerated	
	AF-Requested-Data	Unsigned32	
	Content-Version	Unsigned64	
	Pre-emption-Control-Info	Unsigned32	
	Extended-Max-Requested-BW-DL	Unsigned32	
	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	
	Extended-Min-Requested-BW-UL	Unsigned32	
	MCVideo-Identifier	OctetString	
	IMS-Content-Identifier	OctetString	
	IMS-Content-Type	Enumerated	
	Callee-Information	Grouped	
	FLUS-Identifier	OctetString	
	Desired-Max-Latency	Float32	
	Desired-Max-Laterity Desired-Max-Loss	Float32	
	The AVP codes from 569 to 599 are reserved for TS 29.209, TS		
	Visited-Network-Identifier	OctetString	
	Public-Identity	UTF8String	
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	29.229 [2]
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
609	SIP-Authenticate	OctetString	

			1
	SIP-Authorization	OctetString	ļ
	SIP-Authentication-Context	OctetString	•
	SIP-Auth-Data-Item	Grouped	ļ
	SIP-Item-Number	Unsigned32	ļ
	Server-Assignment-Type	Enumerated	ļ
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	ļ
	Reason-Info	UTF8String	ļ
	Charging-Information	Grouped	•
	Primary-Event-Charging-Function-Name	DiameterURI	<u> </u>
	Secondary-Event-Charging-Function-Name	DiameterURI	ļ
	Primary-Charging-Collection-Function-Name	DiameterURI	<u> </u>
	Secondary-Charging-Collection-Function-Name	DiameterURI	<u> </u>
	User-Authorization-Type	Enumerated	ļ
	User-Data-Already-Available	Enumerated	<u> </u>
	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
	Supported-Features	Grouped	
629	Feature-List-ID	Unsigned32]
	Feature-List	Unsigned32]
631	Supported-Applications	Grouped]
632	Associated-Identities	Grouped	
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	İ
	Wildcarded-IMPU	UTF8String	Ť l
	UAR-Flags	Unsigned32	†
	Loose-Route-Indication	Enumerated	†
	SCSCF-Restoration-Info	Grouped	İ
	Path	OctetString	†
	Contact	OctetString	†
	Subscription-Info	Grouped	†
	Call-ID-SIP-Header	OctetString	†
	From-SIP-Header	OctetString	†
	To-SIP-Header	OctetString	†
	Record-Route	OctetString	†
	Associated-Registered-Identities	Grouped	†
	Multiple-Registration-Indication	Enumerated	t
	Restoration-Info	Grouped	t
	Session-Priority	Enumerated	t
651	Identity-with-Emergency-Registration	Grouped	t
	Priviledged-Sender-Indication	Enumerated	•
	LIA-Flags	Unsigned32	†
	Initial-CSeq-Sequence-Number	Unsigned32 Unsigned32	
			}
	SAR-Flags	Unsigned32	<u> </u>
	Allowed-WAF-WWSF-Identities	Grouped	}
	WebRTC-Authentication-Function-Name	UTF8String	ļ
	WebRTC-Web-Server-Function-Name	UTF8String	
	RTR-Flags	Unsigned32	ļ
	P-CSCF-Subscription-Info	Grouped	ļ
	Registration-Time-Out	Time	
	The AVP codes from 662 to 699 are reserved for TS 29.229.		T
	User-Identity	Grouped	ļ
	MSISDN	OctetString	
	User-Data	OctetString	ļ
	Data-Reference	Enumerated	ļ
	Service-Indication	OctetString	.
	Subs-Req-Type	Enumerated	29.329 [4]
	Requested-Domain	Enumerated	20.020 [4]
	Current-Location	Enumerated]
708	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	

_		1 -	
	One-Time-Notification	Enumerated	
	Requested-Nodes	Unsigned32	1
	Serving-Node-Indication	Enumerated	1
	Repository-Data-ID	Grouped	
	Sequence-Number	Unsigned32	+
	Pre-paging-Supported Local-Time-Zone-Indication	Enumerated Enumerated	+
	UDR-Flags	Unsigned32	+
	Call-Reference-Info	Grouped	+
	Call-Reference-Number	OctetString	1
	AS-Number	OctetString	+
	The AVP codes from 723 to 799 are reserved for TS 29.329.	Coloronnig	
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
	Event-Type	Grouped	
	SIP-Method	UTF8String	1
825	Event	UTF8String	1
826	Content-Type	UTF8String	1
827	Content-Length	Unsigned32	1
	Content-Disposition	UTF8String	I I
	Role-of-Node	Enumerated	I I
	User-Session-Id	UTF8String	<u> </u>
	Calling-Party-Address	UTF8String	<u> </u>
	Called-Party-Address	UTF8String	1
	Time-Stamps	Grouped	1
	SIP-Request-Timestamp	Time	<u> </u>
	SIP-Response-Timestamp	Time	ļ
	Application-Server	UTF8String	↓
	Application-provided-called-party-address	UTF8String	<u> </u>
	Inter-Operator-Identifier	Grouped	↓
	Originating-IOI	UTF8String	
	Terminating-IOI IMS-Charging-Identifier	UTF8String	
	SDP-Session-Description	UTF8String UTF8String	<u> </u>
	SDP-Media-Component	Grouped	
	SDP-Media-Component	UTF8String	†
	SDP-Media-Name SDP-Media-Description	UTF8String	+
	CG-Address	Address	†
	GGSN-Address	Address	†
	Served-Party-IP-Address	Address	†
	Authorized-QoS	UTF8String	32.299 [5]
	Application-Server-Information	Grouped	†
	Trunk-Group-Id	Grouped	1
852	Incoming-Trunk-Group-Id	UTF8String	1
853	Outgoing-Trunk-Group-Id	UTF8String	1
854	Bearer-Service	OctetString	I
	Service-Id	UTF8String	
	Associated-URI	UTF8String	1
	Charged-Party	UTF8String]
	PoC-Controlling-Address	UTF8String	<u> </u>
	PoC-Group-Name	UTF8String	<u> </u>
	Cause	Grouped	1
	Cause-Code	Integer32	
	Node-Functionality	Enumerated	1
	Service-Specific-Data	UTF8String	1
	Originator	Enumerated	
	PS-Furnish-Charging-Information	Grouped	
	PS-Free-Format-Data	OctetString Enumerated	1
	PS-Append-Free-Format-Data	Enumerated	1
	Time-Quota-Threshold	Unsigned32	1
	Volume-Quota-Threshold	Unsigned32	1
	Trigger-Type Quota-Holding-Time	Enumerated Unsigned32	1
	Reporting-Reason	Unsigned32 Enumerated	1
	Service-Information	Grouped	1
	PS-Information	Grouped	†
014	r o momation	Joupeu	

875	Reserved	-		
876	IMS-Information	Group	ed	Ī
877	MMS-Information	Group		
	LCS-Information	Group		
	PoC-Information	Group		1
	MBMS-Information	Group		1
	Quota-Consumption-Time	Unsigne		†
	Media-Initiator-Flag			+
		Enumer		
	PoC-Server-Role	Enumer		4
	PoC-Session-Type	Enumer		<u> </u>
	Number-Of-Participants	Unsigne		
886	Originator-Address	Group		
887	Participants-Involved	UTF8S	ring	
888	Expires	Unsigne	ed32	1
889	Message-Body	Group	ed	1
	Reserved	-		†
	Reserved	_		†
	Reserved			
		-		4
	Reserved	-		<u> </u>
	Reserved	-		1
	Reserved	-		1
	Reserved	-		1
897	Address-Data	UTF8S	ring	
898	Address-Domain	Group		
	Address-Type	Enumer		1
	· · · · · · · · · · · · · · · · · · ·			
900	TMGI	OctectS	trina	
	Required-MBMS-Bearer-Capabilities	UTF8S		†
				+
	MBMS-StartStop-Indication	Enumer		_
	MBMS-Service-Area	OctectS		<u> </u>
	MBMS-Session-Duration	Unsigne		
	Alternative-APN	UTF8St	ring	<u> </u>
906	MBMS-Service-Type	Enumer	ated	
907	MBMS-2G-3G-Indicator	Enumer	ated	
908	MBMS-Session-Identity	OctetSt	ring	
909		UTF8S		†
	Additional-MBMS-Trace-Info	OctetSt		†
	MBMS-Time-To-Data-Transfer	Unsigne		1
	MBMS-Session-Identity-Repetition-Number	Unsigne		
	, ,			4
	MBMS-Required-QoS	UTF8St		<u> </u>
	MBMS-Counting-Information	Enumer		_
	MBMS-User-Data-Mode-Indication	Enumer		
916	MBMS-GGSN-Address	UTF8St	ring	20.061
917	MBMS-GGSN-IPv6-Address	UTF8S	ring	29.061
	MBMS-BMSC-SSM-IP-Address	UTF8St		[13]
	MBMS-BMSC-SSM-IPv6-Address	UTF8St		1
	MBMS-Flow-Identifier	OctetSt		†
	CN-IP-Multicast-Distribution	Enumer		†
	MBMS-HC-Indicator			+
		Enumer		<u> </u>
	MBMS-Access-Indicator	Enumer		<u> </u>
	MBMS-GW-SSM-IP-Address	OctetSt		1
	MBMS-GW-SSM-IPv6-Address	OctetSt		<u> </u>
	MBMS-BMSC-SSM-UDP-Port	OctetSt		1
	MBMS-GW-UDP-Port	OctetSt	ring	
	MBMS-GW-UDP-Port-Indicator	Enumer		1
	MBMS-Data-Transfer-Start	Unsigne		1
	MBMS-Data-Transfer-Stop	Unsigne		†
0.311		Unsigne		†
				1
931	MBMS-Flags			
931 932	Restart-Counter	Unsigne		_
931 932 933	Restart-Counter Diagnostic-Info	Unsigne	ed32	1
931 932 933 934	Restart-Counter Diagnostic-Info MBMS-Cell-List		ed32	-
931 932 933 934 Note:	Restart-Counter Diagnostic-Info MBMS-Cell-List The AVP codes from 935 to 999 are reserved for TS 29.061	Unsigne OctetSt	ed32	
931 932 933 934 Note: 1000	Restart-Counter Diagnostic-Info MBMS-Cell-List The AVP codes from 935 to 999 are reserved for TS 29.061 Bearer-Usage	Unsigne	ed32 ring	
931 932 933 934 Note: 1000	Restart-Counter Diagnostic-Info MBMS-Cell-List The AVP codes from 935 to 999 are reserved for TS 29.061	Unsigne OctetSt	ed32	

1003 Charging-Rule-Definition	Grouped
1004 Charging-Rule-Base-Name	UTF8String
1005 Charging-Rule-Name	OctetString
1006 Event-Trigger	Enumerated
1007 Metering-Method	Enumerated
1008 Offline	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
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
1040 APN-Aggregate-Max-Bitrate-UL	Unsigned32
1041 AFN-Aggregate-Max-Bitrate-OL 1042 Revalidation-Time	Time
1043 Revalidation-Time	Time
1044 Rule-DeActivation-Time 1045 Session-Release-Cause	Time
	Enumerated
1046 Priority-Level	Unsigned32
1047 Pre-emption-Capability	Enumerated
1048 Pre-emption-Vulnerability	Enumerated
1049 Default-EPS-Bearer-QoS	Grouped
1050 AN-GW-Address	Address
1051 QoS-Rule-Install	Grouped
1052 QoS-Rule-Remove	Grouped
1053 QoS-Rule-Definition	Grouped
1054 QoS-Rule-Name	OctetString
1055 QoS-Rule-Report	Grouped
1056 Security-Parameter-Index	OctetString
1057 Flow-Label	OctetString
1058 Flow-Information	Grouped
1059 Packet-Filter-Content	IPFilterRule
060 Packet-Filter-Identifier	OctetString
061 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	Address	
1080 Flow-Direction	Enumerated	
1081 Routing-Rule-Install	Grouped	
1082 Credit-Management-Status	Unsigned32	
1085 Redirect-Information	Grouped	
1086 Redirect- Support	Enumerated	
1087 TDF-Information	Grouped	
1088 TDF-Application-Identifier	OctetString	
1089 TDF-Destination-Host	DiameterIdentity	
1090 TDF-Destination-Realm	DiameterIdentity	
1091 TDF-IP-address	Address	
1092 ADC-Rule-Install	Grouped	
1093 ADC-Rule-Remove	Grouped	
1094 ADC-Rule-Definition	Grouped	
1095 ADC-Rule-Base-Name	UTF8String	
1096 ADC-Rule-Name	OctetString	
1097 ADC-Rule-Report	Grouped	
1098 Application-Detection-Information	Grouped	
1099 PS-to-CS-Session-Continuity	Enumerated	
Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212	Litamoratoa	
1100 Served-User-Identity	Groupe	
1101 VASP-ID	UTF8Str	
1102 VAS-ID	UTF8String	
1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address	Grouped	
1106 Result-Recipient-Address	Grouped	
1107 Sequence-Number	Unsigned32	
1108 Recipient-Address	UTF8String	
1109 Routeing-Address	UTF8String	29.140 [16]
1110 Originating-Interface	Enumerated	20.1.10 [10]
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key	UTF8String	
1115 Billing-Information	UTF8String	
1116 Status	Grouped	
1117 Status-Code	UTF8String	
1118 Status-Text	UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	o ir dolling	
1200 Domain-Name	UTF8String	
1201 Recipient-Address	Grouped	
1201 Recipient-Address 1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1203 Mini-Content-Type 1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size	Unsigned32	
1206 Content-Size 1207 Additional-Content-Information		
	Grouped	32.299 [5]
1208 Addressee-Type	Enumerated	
1209 Priority	Enumerated	
1210 Message-ID	UTF8String	
1211 Magazaga Typa	Enumerated	
1211 Message-Type	Enumerated	
1212 Message-Size	Unsigned32	
1212 Message-Size 1213 Message-Class	Unsigned32 Grouped	
1212 Message-Size	Unsigned32	

1216	Delivery-Report-Requested	Enumerated	
1217	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	Address	
	SGSN-Address	Address	
	PoC-Session-Id	UTF8String	
	Deferred-Location-Even-Type	UTF8String	
1231	LCS-APN	UTF8String	
1232	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 UTF8String	
	LCS-Requestor-Id-String	5	
	LCS-Client-Type	Enumerated	
	Location-Estimate	OctetString	
	Location-Estimate-Type	Enumerated	
	Location-Type	Grouped	
	Positioning-Data	UTF8String	
1246	Reserved	-	
1247	PDP-Context-Type	Enumerated	
	MMBox-Storage-Requested	Enumerated	
	Service-Specific-Info	Grouped	
	Called-Asserted-Identity	UTF8String	
	Reguested-Party-Address	UTF8String	
	PoC-User-Role	Grouped	
	PoC-User-Role-IDs	UTF8String	
	PoC-User-Role-info-Units	Enumerated	
1200	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	
	Base-Time-Interval	Unsigned32	
	Envelope	Grouped	
	Envelope-End-Time	Time	
	Envelope-Reporting	Enumerated	
	Envelope-Start-Time	Time	
	Time-Quota-Mechanism	Grouped	
	Time-Quota-Nechanism Time-Quota-Type	Enumerated	
	Early-Media-Description	Grouped	
	SDP-TimeStamps		
		Grouped	
	SDP-Offer-Timestamp	Time	
	SDP-Answer-Timestamp	Time	
	AF-Correlation-Information	Grouped	
	PoC-Session-Initiation-type	Enumerated	
	Offline-Charging	Grouped	
	User-Participating-Type	Enumerated	
1280	Alternate-Charged-Party-Address	UTF8String	

1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
Note: The AVP codes from 1289 to 1299 are reserved for TS 32.299		
1300 PC5-Radio-Technology	Enumerated	
1301 RAN-End-Time	Time	
1302 RAN-Secondary-RAT-Usage-Report	Grouped	
1303 RAN-Start-Time	Time	
1304 Secondary-RAT-Type	OctetString	
1305 Civic-Address-Information	UTF8String	
1306 WLAN-Operator-Id	Grouped	
1307 WLAN-Operator-Name	UTF8String	
1308 WLAN-PLMN-Id	UTF8String	
1309 API-Content	UTF8String	
1310 API-Direction	Enumerated	
1311 API-Identifier	OctetString	32.299 [5]
1312 API-Invocation-Timestamp	Time	
1313 API-Result-Code 1314 API-Size	Unsigned32	
1314 API-Size 1315 API-Network-Service-Node	Unsigned64 Enumerated	
1316 Exposure-Function-API-Information		
1316 Exposure-Function-API-Information 1317 SCEF-Address	Grouped Address	
1317 SCEF-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	
	ao.a.ca	i l
11323 Vol. TE-Information	Grouped	
1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32,229.	Grouped	
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229.		
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data	Grouped	
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229.		
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI	Grouped Grouped UTF8String	
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version	Grouped Grouped UTF8String UTF8String	
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed	Grouped Grouped UTF8String	
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32	
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed	Grouped Grouped UTF8String UTF8String UTF8String	
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32	
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString	
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped	
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped	
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32	
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString	
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Unsigned32 Unsigned32 OctetString	
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped	29.272 [21]
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Grouped Grouped Grouped	29.272 [21]
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped	29.272 [21]
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped Grouped	29.272 [21]
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Enumerated Enumerated Unsigned32	29.272 [21]
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated	29.272 [21]
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Enumerated Unsigned32 Enumerated Unsigned32	29.272 [21]
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32	29.272 [21]
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	29.272 [21]
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Enumerated	29.272 [21]
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32	29.272 [21]
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	29.272 [21]
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1426 Access-Restriction-Data 1427 APN-OI-Replacement	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32	29.272 [21]
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1410 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1422 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32	29.272 [21]
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1426 Access-Restriction-Data 1427 APN-OI-Replacement	Grouped Grouped UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32	29.272 [21]

1431 EPS-Subscribed-QoS-Profile	Grouped
1432 VPLMN-Dynamic-Address-Allowed	Enumerated
1433 STN-SR	OctetString
1434 Alert-Reason	Enumerated
1435 AMBR	Grouped
1436 CSG-Subscription-Data	Grouped
1437 CSG-ld	Unsigned32
1438 PDN-GW-Allocation-Type	Enumerated
1439 Expiration-Date	Time
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32
1441 IDA-Flags	Unsigned32
1442 PUA-Flags	Unsigned32
1443 NOR-Flags	Unsigned32
1444 User-Id	UTF8String
1445 Equipment-Status	Enumerated
1446 Regional-Subscription-Zone-Code	OctetString
1447 RAND	OctetString
1448 XRES	OctetString
1449 AUTN	OctetString
1450 KASME	OctetString
1451 Reserved	-
1452 Trace-Collection-Entity	Address
1453 Kc	OctetString
1454 SRES	OctetString
1455 Reserved	-
1456 PDN-Type	Enumerated
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated
1458 Trace-Data	Grouped
1459 Trace-Reference	OctetString
1460 Reserved	-
1461 Reserved	-
1462 Trace-Depth	Enumerated
1463 Trace-NE-Type-List	OctetString
1464 Trace-Interface-List	OctetString
1465 Trace-Event-List	OctetString
1466 OMC-Id	OctetString
1467 GPRS-Subscription-Data	Grouped
1468 Complete-Data-List-Included-Indicator	Enumerated
1469 PDP-Context	Grouped
1470 PDP-Type	OctetString
1471 3GPP2-MEID	OctetString
1472 Specific-APN-Info	Grouped
1473 LCS-Info	Grouped
1474 GMLC-Number	OctetString
1475 LCS-PrivacyException	Grouped
1476 SS-Code	OctetString
1477 SS-Status	OctetString
1478 Notification-To-UE-User	Enumerated
1479 External-Client	Grouped
1480 Client-Identity	OctetString
1481 GMLC-Restriction	Enumerated
1482 PLMN-Client	Enumerated
1483 Service-Type	Grouped
1484 ServiceTypeIdentity	Unsigned32
1485 MO-LR	Grouped
1465 MO-LR 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
	•

1607 Service-Area-IdentityOctetString[21]1608 Geographical-InformationOctetString1609 Geodetic-InformationOctetString	1497 MME-User-State Group	1 11 (1		
1498 User-State	1498 GSSN-User-State			
1499 User-State	1499 User-State			
	1500 Non-3GPP-User-Data			
1501 Non-3GPP-IP-Access	1501 Non-3GPP-IP-Access	atcu		
1501 Non-3GPP-IP-Access	1501 Non-3GPP-IP-Access	ped		
1502 Non-3GPP-IP-Access-APN	1502 Non-3GPP-IP-Access-APN	rated		
1503 ANI-Trusted	1503 AN-Trusted			
1505 Tiance-Info Grouped	1504 ANID			
1505 MIP-FA-RK	1505 Trace-Info			
1506 MIP-FA-RK OctetString Unsigned32 1509 WLAN-Identifier Grouped 1501 MIP-FA-RK-SPI Unsigned32 1509 WLAN-Identifier Grouped 1511 Access-Info Grouped 1511 Access-Authorization-Flags Unsigned32 1513 Reserved	1500 MIP-FA-RK			
1507 MIP-FA.RK-SP	1507 MIP-FA-RK-SPI			
1509 WLAN-Identifier Grouped	1509 WLAN-Identifier			
1510 TWAN-Access-Info	1510 TWAN-Access-Info	ed32		
1511 Access-Authorization-Flags	1511 Access-Authorization-Flags	ed		
1512 TWAN-Default-APN-Context-Id	1512 TWAN-Default-APN-Context-Id			
1514 Reserved	1513 Reserved	ed32		
1515 Reserved -	1514 Reserved	ed32		
1515 Reserved	1515 Reserved			
1515 Reserved	1516 Full-Network-Name		29 273 [20]	
1518 Short-Network-Name	1517 Short-Network-Name		20.210 [20]	
1518 AAA-Failure-Indication	1518 AAA-Failure-Indication			
	1519 Transport-Access-Type			
1520 DER-Flags	1520 DER-Flags			
1521 DEA-Flags	1521 DEA-Flags			
1522 RAR-Flags	1522 RAR-Flags			
1523 DER-S6b-Flags	1523 DER-S6b-Flags			
1524 SSID	1524 SSID			
1525 HESSID	1525 HESSID			
1526 Access-Network-Info	1526 Access-Network-Info Group 1527 TWAN-Connection-Mode Unsigned 1528 TWAN-Connectivity-Parameters Group 1529 Connectivity-Flags Unsigned 1530 TWAN-PCO Unsigned 1531 TWAG-CP-Address Unsigned 1532 TWAG-UP-Address Unsigned 1533 TWAN-S2a-Failure-Cause Unsigned 1534 SM-Back-Off-Timer Unsigned 1535 WLCP-Key Unsigned 318 3GPP-AAA-Server-Name Unsigned 1536 Origination-Time-Stamp Unsigned 1537 Maximum-Wait-Time Unsigned 1538 Emergency-Services Unsigned 1539 AAR-Flags Unsigned 1540 IMEI-Check-In-VPLMN-Result Unsigned 1541 ERP-Authorization Unsigned Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. Unsigned 1600 MME-Location-Information Unsigned 1601 SGSN-Location-Information Unsigned 1602 E-UTRAN-Cell-Global-Identity Unsigned <			
1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address Unsigned32 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32 1535 WLCP-Key OctetString 318 3GPP-AAA-Server-Name DiameterIdentity 1536 Origination-Time-Stamp Unsigned32 1537 Maximum-Wait-Time Unsigned32 1538 Emergency-Services Unsigned32 1539 AAR-Flags Unsigned32 1540 IMEI-Check-In-VPLMN-Result Unsigned32 Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.234 and is now defined in 3GPP TS 29.273 from Rel-12. 1600 MME-Location-Information Grouped 1601 SGSN-Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString <td>1527 TWAN-Connection-Mode 1528 TWAN-Connectivity-Parameters 1529 Connectivity-Flags Unsigne 1530 TWAN-PCO 1531 TWAG-CP-Address 1532 TWAG-UP-Address 1533 TWAN-S2a-Failure-Cause 1534 SM-Back-Off-Timer 1535 WLCP-Key 318 3GPP-AAA-Server-Name 1536 Origination-Time-Stamp 1537 Maximum-Wait-Time 1538 Emergency-Services 1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1605 Routing-Area-Identity</td> <td></td> <td></td> <td></td>	1527 TWAN-Connection-Mode 1528 TWAN-Connectivity-Parameters 1529 Connectivity-Flags Unsigne 1530 TWAN-PCO 1531 TWAG-CP-Address 1532 TWAG-UP-Address 1533 TWAN-S2a-Failure-Cause 1534 SM-Back-Off-Timer 1535 WLCP-Key 318 3GPP-AAA-Server-Name 1536 Origination-Time-Stamp 1537 Maximum-Wait-Time 1538 Emergency-Services 1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1605 Routing-Area-Identity			
1528 TWAN-Connectivity-Parameters	1528 TWAN-Connectivity-Parameters Group 1529 Connectivity-Flags Unsigne 1530 TWAN-PCO 1531 TWAG-CP-Address 1532 TWAG-UP-Address 1533 TWAN-S2a-Failure-Cause 1534 SM-Back-Off-Timer 1535 WLCP-Key 318 3GPP-AAA-Server-Name E 1536 Origination-Time-Stamp 1537 Maximum-Wait-Time 1538 Emergency-Services 1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity			
1529 Connectivity-Flags	1529 Connectivity-Flags Unsigned 1530 TWAN-PCO 1531 TWAG-CP-Address 1532 TWAG-UP-Address 1533 TWAN-S2a-Failure-Cause 1534 SM-Back-Off-Timer 1535 WLCP-Key 318 3GPP-AAA-Server-Name 1536 Origination-Time-Stamp 1537 Maximum-Wait-Time 1538 Emergency-Services 1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity			
1530 TWAN-PCO	1530 TWAN-PCO 1531 TWAG-CP-Address 1532 TWAG-UP-Address 1533 TWAN-S2a-Failure-Cause 1534 SM-Back-Off-Timer 1535 WLCP-Key 318 3GPP-AAA-Server-Name 1536 Origination-Time-Stamp 1537 Maximum-Wait-Time 1538 Emergency-Services 1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity			
TWAG-CP-Address	1531 TWAG-CP-Address 1532 TWAG-UP-Address 1533 TWAN-S2a-Failure-Cause 1534 SM-Back-Off-Timer 1535 WLCP-Key 318 3GPP-AAA-Server-Name 1536 Origination-Time-Stamp 1537 Maximum-Wait-Time 1538 Emergency-Services 1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 IMME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity		a	
TWAG-UP-Address	1532 TWAG-UP-Address 1533 TWAN-S2a-Failure-Cause 1534 SM-Back-Off-Timer 1535 WLCP-Key 318 3GPP-AAA-Server-Name 1536 Origination-Time-Stamp 1537 Maximum-Wait-Time 1538 Emergency-Services 1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 IMME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity			
1533 TWAN-S2a-Failure-Cause	1533 TWAN-S2a-Failure-Cause 1534 SM-Back-Off-Timer 1535 WLCP-Key 318 3GPP-AAA-Server-Name 1536 Origination-Time-Stamp 1537 Maximum-Wait-Time 1538 Emergency-Services 1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity			
1534 SM-Back-Off-Timer	1534 SM-Back-Off-Timer 1535 WLCP-Key 318 3GPP-AAA-Server-Name 1536 Origination-Time-Stamp 1537 Maximum-Wait-Time 1538 Emergency-Services 1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 IMME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity			
1535 WLCP-Key	1535 WLCP-Key 318 3GPP-AAA-Server-Name 1536 Origination-Time-Stamp 1537 Maximum-Wait-Time 1538 Emergency-Services 1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity			
318 3GPP-AAA-Server-Name DiameterIdentity 1536 Origination-Time-Stamp Unsigned64 1537 Maximum-Wait-Time Unsigned32 1538 Emergency-Services Unsigned32 1539 AAR-Flags Unsigned32 1540 IMEI-Check-In-VPLMN-Result Unsigned32 1541 ERP-Authorization Unsigned32 1541 ERP-Authorization Unsigned32 1542 ERP-Authorization Unsigned32 1543 ERP-Authorization Unsigned32 1544 ERP-Authorization Unsigned32 1545 Origination Unsigned32 1546 Origination Unsigned32 1547 ERP-Authorization Unsigned32 1548 Origination Unsigned32 1549 Origination Unsigned32 1540 Origination Origination Origination Origination 1600 Origination Origination Origination Origination 1601 Origination Origination Origination Origination 1602 Origination Origination Origination Origination 1603 Origination Origination Origination Origination Origination 1604 Origination Origination Origination Origination 1605 Origination Origination Origination Origination Origination 1606 Origination Ori	318 3GPP-AAA-Server-Name 1536 Origination-Time-Stamp 1537 Maximum-Wait-Time 1538 Emergency-Services 1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity			
1536 Origination-Time-Stamp Unsigned64 1537 Maximum-Wait-Time Unsigned32 1538 Emergency-Services Unsigned32 1539 AAR-Flags Unsigned32 1540 IMEI-Check-In-VPLMN-Result Unsigned32 1541 ERP-Authorization Unsigned32 1541 ERP-Authorization Unsigned32 1542 Interval Unsigned32 1543 Interval Unsigned32 1544 Interval Unsigned32 1545 Interval Unsigned32 1546 Interval Unsigned32 1547 Interval Unsigned32 1548 Interval Unsigned32 1549 Interval Unsigned32 1540 Interval Unsigned32 1541 Interval 1536 Origination-Time-Stamp 1537 Maximum-Wait-Time 1538 Emergency-Services 1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity				
1537 Maximum-Wait-Time	1537 Maximum-Wait-Time 1538 Emergency-Services 1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity			
1538Emergency-ServicesUnsigned321539AAR-FlagsUnsigned321540IMEI-Check-In-VPLMN-ResultUnsigned321541ERP-AuthorizationUnsigned32Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.234 and is now defined in 3GPP TS 29.273 from Rel-12.1600MME-Location-InformationGrouped1601SGSN-Location-InformationGrouped1602E-UTRAN-Cell-Global-IdentityOctetString1603Tracking-Area-IdentityOctetString1604Cell-Global-IdentityOctetString1605Routing-Area-IdentityOctetString1606Location-Area-IdentityOctetString1607Service-Area-IdentityOctetString1608Geographical-InformationOctetString1609Geodetic-InformationOctetString	1538 Emergency-Services 1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity			
1539 AAR-Flags	1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity	Unsigned3	32	
1540IMEI-Check-In-VPLMN-ResultUnsigned321541ERP-AuthorizationUnsigned32Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.234 and is now defined in 3GPP TS 29.273 from Rel-12.1600MME-Location-InformationGrouped1601SGSN-Location-InformationGrouped1602E-UTRAN-Cell-Global-IdentityOctetString1603Tracking-Area-IdentityOctetString1604Cell-Global-IdentityOctetString1605Routing-Area-IdentityOctetString1606Location-Area-IdentityOctetString1607Service-Area-IdentityOctetString1608Geographical-InformationOctetString1609Geodetic-InformationOctetString	1540 IMEI-Check-In-VPLMN-Result 1541 ERP-Authorization Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity			
Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.234 and is now defined in 3GPP TS 29.273 from Rel-12. 1600 MME-Location-Information Grouped 1601 SGSN-Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Location-Area-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information	Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity			
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.234 and is now defined in 3GPP TS 29.273 from Rel-12. 1600 MME-Location-Information Grouped 1601 SGSN-Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Location-Area-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information	Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.2 29.273 from Rel-12. 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity	Unsigned3	32	
1600 MME-Location-Information Grouped 1601 SGSN-Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Location-Area-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString	1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity	234 and is no	ow defined in 30	SPP TS
1601 SGSN-Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Location-Area-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString	1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity	Crouses	1	
1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Location-Area-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString	1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity			
1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Location-Area-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString	1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity			
1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Location-Area-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString	1604 Cell-Global-Identity 1605 Routing-Area-Identity			
1605 Routing-Area-Identity OctetString 1606 Location-Area-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString	1605 Routing-Area-Identity			
1606Location-Area-IdentityOctetString29.271607Service-Area-IdentityOctetString[21]1608Geographical-InformationOctetString1609Geodetic-InformationOctetString				
1607 Service-Area-IdentityOctetString[21]1608 Geographical-InformationOctetString1609 Geodetic-InformationOctetString	1 1606 (Location-Area-Identity			29.272
1608 Geographical-InformationOctetString1609 Geodetic-InformationOctetString				[21]
1609 Geodetic-Information OctetString				
1610 Current-Location-Retrieved Enumerated				
1611 Age-Of-Location-Information Unsigned32				
1612 Active-APN Grouped	1612 Active-APN	Grouped		
1613 SIPTO Permission Enumerated	1613 SIPTO-Permission	Enumerate	ed	

1614 Error-Diagnostic	Enumerated
1615 UE-SRVCC-Capability	Enumerated
1616 MPS-Priority	Unsigned32
1617 VPLMN-LIPA-Allowed	Enumerated
1618 LIPA-Permission	Enumerated
1619 Subscribed-Periodic-RAU-TAU-Timer	Unsigned32
1620 Ext-PDP-Type	OctetString
1621 Ext-PDP-Address	Address
1622 MDT-Configuration	Grouped
1623 Job-Type	Enumerated
1624 Area-Scope	Grouped
1625 List-Of-Measurements	Unsigned32
1626 Reporting-Trigger	Unsigned32
1627 Report-Interval	Enumerated
1628 Report-Amount	Enumerated
1629 Event-ThresholdRSRP	Unsigned32
1630 Event-ThresholdRSRQ	Unsigned32
1631 Logging-Interval	Enumerated
1632 Logging-Duration	Enumerated
1633 Relay-Node-Indicator	Enumerated
1634 MDT-User-Consent	Enumerated
1635 PUR-Flags	Unsigned32
1636 Subscribed-VSRVCC	Enumerated
1637 Equivalent-PLMN-List	Grouped
1638 CLR-Flags	Unsigned32
1639 UVR-Flags	
	Unsigned32
1640 UVA-Flags	Unsigned32
1641 VPLMN-CSG-Subscription-Data	Grouped
1642 Time-Zone	UTF8String
1643 A-MSISDN	OctetString
1644 Reserved	-
1645 MME-Number-for-MT-SMS	OctetString
11646 Reserved	-
1647 Reserved	-
1647 Reserved 1648 SMS-Register-Request	- Enumerated
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone	Grouped
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time	Grouped Enumerated
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info	Grouped Enumerated Grouped
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name	Grouped Enumerated
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags	Grouped Enumerated Grouped DiameterIdentity
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated Enumerated
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated CotetString OctetString
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated OctetString OctetString Integer32
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1I	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated OctetString OctetString Integer32 Integer32
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated OctetString OctetString Integer32 Integer32 Unsigned32
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated Inumerated Enumerated Unsigned32 Unsigned32 UTF8String
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated Inumerated Enumerated Unsigned32 Unsigned32 UTF8String Unsigned32 Unsigned32 Unsigned32 Unsigned32
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability 1668 WLAN-offloadability-EUTRAN	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability-EUTRAN 1669 WLAN-offloadability-UTRAN	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability-EUTRAN 1669 WLAN-offloadability-UTRAN 1670 Reset-ID	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated OctetString OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Unsigned32 OctetString OctetString OctetString Unsigned32 OctetString OctetString Unsigned32 OctetString
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability 1668 WLAN-offloadability-EUTRAN 1669 WLAN-offloadability-UTRAN 1670 Reset-ID 1671 MDT-Allowed-PLMN-Id	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated OctetString OttetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Unsigned32 OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability 1668 WLAN-offloadability-UTRAN 1669 WLAN-offloadability-UTRAN 1670 Reset-ID 1671 MDT-Allowed-PLMN-Id 1672 Adjacent-PLMNs	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated OctetString OttetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 OctetString Grouped
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability-EUTRAN 1669 WLAN-offloadability-UTRAN 1670 Reset-ID 1671 MDT-Allowed-PLMN-Id 1672 Adjacent-PLMNs 1673 Adjacent-Access-Restriction-Data	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 Unsigned32 Unsigned32 Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Grouped Grouped
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability-EUTRAN 1669 WLAN-offloadability-UTRAN 1670 Reset-ID 1671 MDT-Allowed-PLMN-Id 1672 Adjacent-Access-Restriction-Data 1674 DL-Buffering-Suggested-Packet-Count	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 OctetString Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 OctetString OctetString Grouped Grouped Integer32
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability-EUTRAN 1669 WLAN-offloadability-UTRAN 1669 MEset-ID 1671 MDT-Allowed-PLMN-Id 1672 Adjacent-PLMNs 1673 Adjacent-Access-Restriction-Data 1674 DL-Buffering-Suggested-Packet-Count	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Grouped Integer32 Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 OctetString
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability-UTRAN 1669 WLAN-offloadability-UTRAN 1670 Reset-ID 1671 MDT-Allowed-PLMN-Id 1672 Adjacent-Access-Restriction-Data 1674 DL-Buffering-Suggested-Packet-Count 1675 IMSI-Group-Id 1676 Group-Service-Id	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped Integer32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 OctetString OctetString
1647 Reserved 1648 SMS-Register-Request 1649 Local-Time-Zone 1650 Daylight-Saving-Time 1651 GMLC-Info 1652 GMLC-Name 1653 GMLC-Realm 1654 Subscription-Data-Flags 1655 Measurement-Period-LTE 1656 Measurement-Period-UMTS 1657 Collection-Period-RRM-LTE 1658 Collection-Period-RRM-UMTS 1659 Positioning-Method 1660 Measurement-Quantity 1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability-EUTRAN 1669 WLAN-offloadability-UTRAN 1670 Reset-ID 1671 MDT-Allowed-PLMN-Id 1672 Adjacent-Access-Restriction-Data 1674 DL-Buffering-Suggested-Packet-Count 1675 IMSI-Group-Id	Grouped Enumerated Grouped DiameterIdentity DiameterIdentity Unsigned32 Enumerated Enumerated Enumerated Enumerated OctetString Integer32 Integer32 Unsigned32 UTF8String Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Grouped Integer32 Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 OctetString

AOZO AID EI		
1679 AIR-Flags	Unsigned32	4
1680 UE-Usage-Type	Unsigned32	1
1681 Non-IP-PDN-Type-Indicator	Enumerated	1
1682 Non-IP-Data-Delivery-Mechanism	Unsigned32	1
1683 Additional-Context-Identifier	Unsigned32	
1684 SCEF-Realm	DiameterIdentity	1
1685 Subscription-Data-Deletion	Grouped	7
1686 Preferred-Data-Mode	Unsigned32	1
1687 Emergency-Info	Grouped	1
1688 V2X-Subscription-Data	Grouped	†
1689 V2X-Permission	Unsigned32	†
1690 PDN-Connection-Continuity	Unsigned32	
1691 eDRX-Cycle-Length	Grouped	+
		4
1692 eDRX-Cycle-Length-Value	OctetString	
1693 UE-PC5-AMBR	Unsigned32	4
1694 MBSFN-Area	Grouped	4
1695 MBSFN-Area-ID	Unsigned32	↓
1696 Carrier-Frequency	Unsigned32	1
1697 RDS-Indicator	Enumerated	1
1698 Service-Gap-Time	Unsigned32	
1699 Aerial-UE-Subscription-Information	Unsigned32	_[
1700 Broadcast-Location-Assistance-Data-Types	Unsigned64	7
1701 Paging-Time-Window	Grouped	7
1702 Operation-Mode	Unsigned32	1
1703 Paging-Time-Window-Length	OctetString	†
1704 Core-Network-Restrictions	Unsigned32	†
1705 eDRX-Related-RAT	Grouped	┪
		
1706 Interworking-5GS-Indicator	Enumerated	-
1707 Ethernet-PDN-Type-Indicator	Enumerated	4
1708 Subscribed-ARPI	Unsigned32	1
1709 IAB-Operation-Permission	Enumerated	↓
1710 V2X-Subscription-Data-Nr	Grouped	
1711 UE-PC5-QoS	Grouped	1
1712 PC5-QoS-Flow	Grouped	
1713 5QI	Integer32	7
1714 PC5-Flow-Bitrates	Grouped	7
1715 Guaranteed-Flow-Bitrates	Integer32	1
1716 Maximum-Flow-Bitrates	Integer32	†
1717 PC5-Range	Integer32	†
1718 PC5-Link-AMBR	Integer32	
Note: The AVP codes from 1719 to 1799 are reserved for TS 29.272.	integeroz	1
2000 SMS-Information	Crounad	
	Grouped	
2001 Data-Coding-Scheme	Integer32	-} ∣
2002 Destination-Interface	Grouped	4
2003 Interface-Id	UTF8String	<u>↓</u>
2004 Interface-Port	UTF8String	1
2005 Interface-Text	UTF8String	
2006 Interface-Type	Enumerated	
2007 SM-Message-Type	Enumerated	
2008 Originating-SCCP-Address	Address	7
2009 Originator-Interface	Grouped	
2010 Recipient-SCCP-Address	Address	┪
2011 Reply-Path-Requested	Enumerated	†
2012 SM-Discharge-Time	Time	32.299 [5]
2013 SM-Protocol-ID	OctetString	┪
2013 SW-Protocol-ID 2014 SM-Status		┪ !
	OctetString	-∤
2015 SM-User-Data-Header	OctetString	4
2016 SMS-Node	Enumerated	4
2017 SMSC-Address	Address	.
2018 Client-Address	Address	_
2019 Number-of-Messages-Sent	Unsigned32	
2020 Low-Balance-Indication	Enumerated	
2021 Remaining-Balance	Grouped	1
2022 Refund-Information	OctetString	7
2023 Carrier-Select-Routing-Information	UTF8String	†
	3 11 33 anig	1

2021 Number-Portability-Routing-Information	0004 N. J. D. (137) D. (1.14)	LITEOO:	1
2026 Reopient-Info			4
2027 Ordinator-Received-Address Grouped 2028 Recipient-Received-Address Grouped 2028 Recipient-Received-Address Grouped 2029 M-Service-Type Enumerated 2030 MMTel-Information Grouped 2031 MMTel-Sservice-Type Unsigned32 2032 Service-Mode Unsigned32 2033 Service-Mode Unsigned32 2033 Service-Prope Unsigned32 2034 Number-Orders Unsigned32 2035 Associated-Party-Address UTFSString 2036 SDP-Type Enumerated 2037 Change-Condition Integer32 2036 Change-Condition Integer32 2037 Change-Condition Integer32 2039 Change-Time Time 2039 Change-Time Time 2039 Change-Time Time 2039 Change-Time Time 2040 Service-Date-Container Grouped 2041 Start-Time Time 2042 Start-Time Time 2043 Start-Time Time 2044 Time-Eist-Usage Time 2045 Time-First-Usage Time 2046 Time-Eist-Usage Time 2047 Serving-Node-Type Enumerated 2048 Supplementary-Service Grouped 2049 Start-Time Time 2040 Start-Time Time 2041 Start-Time Time 2042 Start-Time Time 2043 Start-Time Time 2044 Start-Time Time 2045 Start-Service Unsigned32 2046 Start-Service Grouped 2046 Start-Service Grouped 2047 Serving-Node-Type Enumerated 2048 Supplementary-Service Grouped 2049 Start-Service Grouped 2040 Supplementary-Service Grouped 2040 Supplementary-Service Grouped 2040 Supplementary-Service Grouped 2041 Supplementary-Service Grouped 2042 Supplementary-Service Grouped 2043 Supplementary-Service Grouped 2044 Supplementary-Service Grouped 2045 Supplementary-Service Grouped 2046 Supplementary-Service Grouped 2047 Supplementary-Service Grouped 2048 Supplementary-Service Grouped 2049 Supplementary-Service Grouped 2050 Supplementary-Service Grouped 2051 Supplementary-Service Grouped 2052 Supplementary-Service Grouped 2053 Supplementary-Service Supplementary-Servi			<u> </u>
2028 Recipient Received Address Grouped 2028 SMS-ervice—Type Enumerated 2039 MMTel-Information Grouped 2031 MMTel-Information Grouped 2031 MMTel-Information Grouped 2032 Subscriber Role Unsigned32 2032 Service-Mode Unsigned32 2033 Subscriber Role Enumerated 2034 Number-Or-Diversions Unsigned32 2035 Associated-Party-Address UTFSString 2036 SDP-Type Enumerated 2037 Change-Condition Integer32 2038 Change-Time Time 2039 Diagnostics Integer32 2039 Change-Time Time 2039 Diagnostics Integer32 2030 Sant-Time Time 2031 Stant-Time Time 2032 Unservice Time 2034 Time-Inst-Usage Time 2034 Time-Inst-Usage Time 2035 Unsigned32 2036 Time-Volumes Grouped 2047 Serving-Node-Type Enumerated 2048 Stephendary-Service Grouped 2049 Participant-Action-Type Enumerated 2049 Participant-Action-Type Enumerated 2049 Participant-Action-Type Enumerated 2049 Participant-Action-Type Enumerated 2050 PDN-Connection-Charging-ID Unsigned32 2051 Dynamic-Address-Rag Enumerated 2052 Accumitated-Cost Grouped 2053 Acc-Cost-Information Grouped 2054 Acc-Information Grouped 2055 Accumitated-Cost Grouped 2056 Current-Tariff Grouped 2057 Roter Tariff Grouped 2058 Rate-Element Grouped 2059 Roter Tariff Grouped 2050 Rote-Tariff Grouped 2051 Rote-Tariff Grouped 2052 Roter Companded Companded 2053 Rote-Sequence-Number Unsigned32 2054 Note-Tariff Grouped 2055 Rote-Tariff Grouped 2056 Current-Tariff Grouped 2057 Companded Unsigned32 2058 Rate-Element Grouped 2059 Delivery-Status UTF8String 2050 Publication-Service-Type Enumerated 2051 Companded Companded 2052 Companded Companded 2053 Companded Companded 2054 Companded Companded 2055 Companded Companded 2056 Companded Companded 2057 Companded Companded 2058 Companded Co			1
2029 SM-Service-Type			1
2303 MMTel-Information		· · · · · · · · · · · · · · · · · · ·	1
2031 MMTel-Sservice-Type			<u> </u>
2032 Service-Mode	2030 MMTel-Information	Grouped	
2033 Subscriber-Role	2031 MMTel-Sservice-Type	Unsigned32	
2034 Number-Of-Diversions	2032 Service-Mode	Unsigned32	Ī
2034 Number-Of-Diversions	2033 Subscriber-Role	Enumerated	1
2035 Associated-Party-Address			†
Enumerated			1
2037 Change-Condition			†
2038 Change-Time Time 2039 Diagnostics Integer32 2040 Service-Data-Container Grouped 2041 Start-Time Time Time 2043 Time-First-Usage Time 2043 Time-First-Usage Time 2044 Time-Last-Usage Time 2045 Time-Usage Time 2046 Time-Data-Volumes Grouped 2046 Traffic-Data-Volumes Grouped 2047 Serving-Node-Type Enumerated 2048 Supplementary-Service Grouped 2049 Participant-Action-Type Enumerated 2059 PDN-Connection-Charging-ID Unsigned32 2051 Dynamic-Address-Flag Enumerated 2059 DN-Connection-Charging-ID Unsigned32 2051 Dynamic-Address-Flag Enumerated 2053 AOC-Sost-Information Grouped Grouped 2054 AOC-Information Grouped Grouped 2055 AOC-Request-Type Enumerated 2055 AOC-Request-Type Enumerated 2056 AOC-Request-Type Grouped 2056 AOC-Request-Type Enumerated 2056 AOC-Request-Type Enumerated 2057 Next-Tariff Grouped 2058 Rate-Element Grouped 2059 Scale-Factor Grouped 2059 Coreneral-Cost Grouped 2050 District-Information Grouped 2050 District-Information Grouped 2050 Information Grouped 2051 District-Information Grouped 2051 District-Information Grouped 2052 Incremental-Cost Grouped 2052 Incremental-Cost Grouped 2053 ACC-Request-Type Enumerated 2056 ACC-Request-Type Enumerated 2059			†
Diagnostics			+
2040 Start-Time			+
2041 Start-Time			+
2042 Stop-Time Time Time 2044 Time-List-Usage Time 2044 Time-List-Usage Time 2044 Time-List-Usage Time 2045 Time-List-Usage Unsigned32 2046 Traffic Data-Volumes Grouped 2047 Serving-Node-Type Enumerated 2048 Suppliementary-Service Grouped 2049 Participant-Action-Type Enumerated 2050 PON-Connection-Charging-ID Unsigned32 2051 Dynamic-Address-Flag Enumerated 2051 Dynamic-Address-Flag Enumerated 2052 Accumulated-Cost Grouped 2053 AoC-Cost-Information Grouped 2054 AoC-Information Grouped 2055 AoC-Request-Type Enumerated 2056 Current-Tariff Grouped 2055 AoC-Request-Type Enumerated 2056 Current-Tariff Grouped 2058 Rate-Element Grouped 2059 Scale-Factor Grouped 2059 Scale-Factor Grouped 2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address Addres			4
Description			.
Description			
Unsigned32			<u> </u>
2046 Traffic-Data-Volumes Grouped	U		
2047 Serving-Node-Type]
2047 Serving-Node-Type		Grouped	
2048 Supplementary-Service Grouped		Enumerated	
Participant-Action-Type			1
DN-Connection-Charging-ID			1
Dynamic-Address-Flag			1
2052 Accumulated-Cost Grouped 2053 AoC-Cost-Information Grouped 2054 AoC-Information Grouped 2054 AoC-Information Grouped 2055 AoC-Request-Type Enumerated 2056 Current-Tariff Grouped 2057 Next-Tariff Grouped 2058 Rate-Element Grouped 2059 Scale-Factor Grouped 2059 Scale-Factor Grouped 2050 Grouped 2050 Grouped 2050 Grouped 2050 Grouped 2050 Grouped 2051 Information Grouped 2051 Information Grouped 2052 Incremental-Cost Grouped 2053 Local-Sequence-Number Unsigned32 2054 Node-Id UTF8String 2056 SGW-Change Enumerated 2056 SGW-Change Enumerated 2056 Charging-Characteristic-Selection-Mode Enumerated 2057 SGW-Address Address Address Enumerated 2057 SGW-Address Financia-Address-Flag-Extension Enumerated 2057 SGW-Address Financia-Address-Flag-Extension Enumerated 2057 SGW-Address Financia-Address-Flag-Extension Enumerated 2057			†
2053 AoC-Cost-Information Grouped 2054 AoC-Information Grouped 2055 AoC-Request-Type Enumerated 2056 Current-Tariff Grouped 2057 Next-Tariff Grouped 2058 Rate-Element Grouped 2059 Scale-Factor Grouped 2050 Tariff-Information Grouped 2051 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Incremental-Cost Grouped 2064 Unit-Cost Grouped 2065 GW-Change Enumerated 2066 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension 2068 Dynamic-Address-Flag-Extension 2070 Tesserved - 2071 Application-Server-ID UTF8String 2072 Application-Server-ID Unsigned32 2073 Application-Server-ID Unsigned32 2074 Delivery-Status UTF8String 2075 reserved - 2076 Peserved - 2077 reserved - 2078 Peserved - 2079 reserved - 2070 reserved - 2070 reserved - 2071 Application-Service-Type Enumerated 2070 Delivery-Status UTF8String 2071 reserved - 2072 reserved - 2077 reserved - 2078 reserved - 2079 reserved - 2070 reserved - 2070 reserved - 2070 reserved - 2071 reserved - 2071 reserved - 2072 reserved - 2073 reserved - 2074 reserved - 2076 reserved - 2077 reserved - 2078 reserved - 2079 reserved - 2070 reserved - 2070 reserved - 2071 reserved - 2071 reserved - 2072 reserved - 2073 reserved - 2074 reserved - 2075 reserved - 2076 reserved - 2077 reserved - 2078 reserved - 2079 reserved - 2070 reserved - 2070 reserved - 2071 reserved - 2071 reserved - 2072 reserved - 2073 reserved - 2074 reserved - 2075 reserved - 2076 reserved - 2077 reserved - 2077 reserved - 2078 reserved - 2079 reserved - 2070 reserved - 2070 reserved			†
2054 AoC-Information			+
2055			+
2056 Current-Tariff Grouped 2057 Next-Tariff Grouped 2058 Rate-Element Grouped 2059 Scale-Factor Grouped 2050 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 2069 Dynamic-Address-Flag-Extension 2000 reserved			+
2057 Next-Tariff			4
2058 Rate-Element Grouped			.
2059 Scale-Factor Grouped			
2060 Tariff-Information Grouped			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 2069 Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. 2100 reserved -			
Description	2060 Tariff-Information	Grouped	
Unsigned32		Grouped	
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-Service-Type Enumerated 2104 Delivery-Status UTF8String 2105 reserved - 2106 reserved - 2107 reserved - 2108 reserved - 2109 reserved - 2101 IlM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Exploded Unsigned32 2113 Total-Number-Of-Messages-Sent Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-Ip UTF8String	2062 Incremental-Cost	Grouped	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-Service-Type Enumerated 2103 Application-Service-Type Enumerated 2104 Delivery-Status UTF8String 2105 reserved - 2106 reserved - 2107 reserved - 2108 reserved - 2109 reserved - 2101 IlM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Exploded Unsigned32 2113 Total-Number-Of-Messages-Sent Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-Ip UTF8String	2063 Local-Sequence-Number	Unsigned32	Ī
Enumerated Enumerated Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address Address Address Enumerated 2068 Dynamic-Address-Flag-Extension Enumerated Enumera			1
Z066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.		ŭ	†
2067 SGW-Address Address Enumerated			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 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2107 reserved 2108 reserved 2109 reserved 2109 reserved 2109 reserved 2110 IM-Information 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 32.299 IS			†
2100 reserved -		Lituiliciated	1
2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2107 reserved 2108 reserved 2109 reserved 32.299 [5] 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2117 Unrigned-32 2117 UTF8String 2117 Content-provider-ID 2118 Enumerated 2108 Unsigned32 2108 Unsigned32 2119 Unsigned32 2119 Unsigned32 2119 UTF8String 2117 Content-provider-ID		T	
2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String 2105 reserved - 2106 reserved - 2107 reserved - 2108 reserved - 2109 reserved - 2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String		LITTOCHER =	+
2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String 2105 reserved - 2106 reserved - 2107 reserved - 2108 reserved - 2109 reserved - 2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String			+
2104 Delivery-Status UTF8String 2105 reserved - 2106 reserved - 2107 reserved - 2108 reserved - 2109 reserved - 2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String			4
2105 reserved - 2106 reserved - 2107 reserved - 2108 reserved - 2109 reserved - 2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String			4
2106 reserved - 2107 reserved - 2108 reserved - 2109 reserved - 2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String		UTF8String	<u> </u>
2107 reserved - 2108 reserved - 2109 reserved - 2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String		-]
2108 reserved - 2109 reserved - 2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String		-]
2108 reserved - 2109 reserved - 2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String	2107 reserved	-	1
2109 reserved-32.299 [5]2110 IM-InformationGrouped2111 Number-Of-Messages-Successfully-ExplodedUnsigned322112 Number-Of-Messages-Successfully-SentUnsigned322113 Total-Number-Of-Messages-ExplodedUnsigned322114 Total-Number-Of-Messages-SentUnsigned322115 DCD-InformationGrouped2116 Content-IDUTF8String2117 Content-provider-IDUTF8String	2108 reserved	-	1
2110IM-InformationGrouped2111Number-Of-Messages-Successfully-ExplodedUnsigned322112Number-Of-Messages-Successfully-SentUnsigned322113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String2117Content-provider-IDUTF8String		-	32.299 [5]
2111Number-Of-Messages-Successfully-ExplodedUnsigned322112Number-Of-Messages-Successfully-SentUnsigned322113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String2117Content-provider-IDUTF8String		Grouped] ''
2112Number-Of-Messages-Successfully-SentUnsigned322113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String2117Content-provider-IDUTF8String			1
2113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String2117Content-provider-IDUTF8String			†
2114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String2117Content-provider-IDUTF8String			†
2115 DCD-InformationGrouped2116 Content-IDUTF8String2117 Content-provider-IDUTF8String			†
2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String			†
2117 Content-provider-ID UTF8String			+
			+
∠118 Unarge-Reason-Uode Enumerated			4
	2118 Charge-Reason-Code	Enumerated	

Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299	9.	
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
2202 Subsession-Id	Unsigned32	
2203 Subsession-Operation	Enumerated	29.215
2204 Multiple-BBERF-Action	Enumerated	[22]
2205 UE-Local-IPv6-Prefix	OctetString	[22]
2206 DRA-Deployment	Enumerated	
2207 PCRF-Address	DiameterIdentity	
2208 DRA-Binding	Enumerated	
Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215 2300 reserved	Ď.	
2300 reserved 2301 SIP-Request-Timestamp-Fraction	- Unsigned32	
2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2303 Online-Charging-Flag	Enumerated	
2304 CUG-Information	OctetString	
2305 Real-Time-Tariff-Information	Grouped	
2306 Tariff-XML	UTF8String	
2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
2309 Account-Expiration	Time	
2310 AoC-Format	Enumerated	
2311 AoC-Service	Enumerated	22 200 [5]
2312 AoC-Service-Obligatory-Type	Grouped	32.299 [5]
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	-	
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator 2323 MBMS-Charged-Party	Enumerated Enumerated	
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299		
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets	Unsigned32	
2405 GMLC-Address	Address	29.173
2406 Additional-Serving-Node	Grouped	[25]
2407 PPR-Address	Address	
2408 MME-Realm	DiameterIdentity	
2409 SGSN-Name	DiameterIdentity	
2410 SGSN-Realm	DiameterIdentity	
2411 RIA-Flags	Unsigned32	
Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173		1
2500 SLg-Location-Type	Enumerated	
2501 LCS-EPS-Client-Name	Grouped	
2502 LCS-Requestor-Name	Grouped	
2503 LCS-Priority	Unsigned32	
2504 LCS-QoS	Grouped	
2505 Horizontal-Accuracy	Unsigned32	
2506 Vertical-Accuracy 2507 Vertical-Requested	Unsigned32 Enumerated	29.172
2507 Vertical-Requested 2508 Velocity-Requested	Enumerated Enumerated	[24]
2509 Response-Time	Enumerated	[24]
2510 Supported-GAD-Shapes	Unsigned32	
2511 LCS-Codeword	UTF8String	
2517 LCS-Codeword 2512 LCS-Privacy-Check	Enumerated	
2513 Accuracy-Fulfilment-Indicator	Enumerated	
2514 Age-Of-Location-Estimate	Unsigned32	
2515 Velocity-Estimate	OctetString	

2516 EUTRAN-Positioning-Data	OctetString	1
2517 ECGI	OctetString	1
2518 Location-Event	Enumerated	1
2519 Pseudonym-Indicator	Enumerated	1
2520 LCS-Service-Type-ID	Unsigned32	
2521 LCS-Privacy-Check-Non-Session	Grouped	
2522 LCS-Privacy-Check-Session	Grouped	
2523 LCS-QoS-Class	Enumerated	1
2524 GERAN-Positioning-Info	Grouped	1
2525 GERAN-Positioning-Data	OctetString	1
2526 GERAN-GANSS-Positioning-Data	OctetString	
2527 UTRAN-Positioning-Info	Grouped	1
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	1
2534 Area-Definition	Grouped	1
2535 Area	Grouped	1
2536 Area-Type	Unsigned32	
2537 Area-Identification	Grouped	ļ
2538 Occurrence-Info	Enumerated	
2539 Interval-Time	Unsigned32	
2540 Periodic-LDR-Information	Grouped	1
2541 Reporting-Amount	Unsigned32	1
2542 Reporting-Interval	Unsigned32	1
2543 Reporting-PLMN-List	Grouped	
2544 PLMN-ID-List	Grouped	1
2545 PLR-Flags	Unsigned32	1
2546 PLA-Flags	Unsigned32	1
2547 Deferred-MT-LR-Data	Grouped	
2548 Termination-Cause	Unsigned32	<u> </u>
2549 LRA-Flags	Unsigned32	<u> </u>
2550 Periodic-Location-Support-Indicator	Enumerated	<u> </u>
2551 Prioritized-List-Indicator	Enumerated	<u> </u>
2552 ESMLC-Cell-Info	Grouped	<u> </u>
2553 Cell-Portion-ID	Unsigned32	<u> </u>
2554 1xRTT-RCID	OctetString	<u> </u>
2555 Delayed-Location-Reporting-Data	Grouped	<u> </u>
2556 Civic-Address	UTF8String	<u> </u>
2557 Barometric-Pressure	Unsigned32	<u> </u>
2558 UTRAN-Additional-Positioning-Data	OctetString	<u> </u>
2559 Motion-Event-Info	Grouped	<u> </u>
2560 Linear-Distance	Unsigned32	<u> </u>
2561 Maximum-Interval	Unsigned32	<u> </u>
2562 Sampling-Interval	Unsigned32	<u> </u>
2563 Reporting-Duration	Unsigned32	<u> </u>
2564 Reporting-Location-Requirements	Unsigned32	<u> </u>
2565 Additional-Area	Grouped	
Note: The AVP codes from 2566 to 2599 are reserved for TS 29.172.		1
2600 reserved	-	<u> </u>
2601 IMS-Application-Reference-Identifier	UTF8String	
2602 Low-Priority-Indicator	Enumerated	
2603 IP-Realm-Default-Indicator	Enumerated	32.299 [5]
2604 Local-GW-Inserted-Indicator	Enumerated	
2605 Transcoder-Inserted-Indicator	Enumerated	
2606 PDP-Address-Prefix-Length	Unsigned32	
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299.	I	1
2700 Reserved	-	
2701 Transit-IOI-List	UTF8String	
2702 Status-AS-Code	Enumerated	32.299 [5]
2703 NNI-Information	Grouped	
2704 NNI-Type	Enumerated	
2705 Neighbour-Node-Address	Address	

2706 Relationship-Mode	Enumerated	
2707 Session-Direction	Enumerated	4
2708 From-Address	UTF8String	4
2709 Access-Transfer-Information	Grouped	4
2710 Access-Transfer-Type	Enumerated	4
2711 Related-IMS-Charging-Identifier	UTF8String	4
2712 Related-IMS-Charging-Identifier-Node	Address	4
2713 IMS-Visited-Network-Identifier	UTF8String	4
2714 TWAN-User-Location-Info 2715 Reserved	Grouped	+
2716 BSSID	LITTOCHERG	+
2717 TAD-Identifier	UTF8String Enumerated	+
Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299.	Enumerateu	
2800 Reserved		
2801 ADC-Revalidation-Time	Time	+
2802 TDF-Application-Instance-Identifier	OctetString	7
2803 HeNB-BBF-FQDN	UTF8String	7
2804 HeNB-Local-IP-Address	Address	7
2805 UE-Local-IP-Address	Address	7
2806 UDP-Source-Port	Unsigned32	7
2807 CS-Service-Qos-Request-Identifier	OctetString	7
2808 CS-Service-QoS-Request-Operation	Enumerated	1
2809 Mute-Notification	Enumerated	1
2810 Monitoring-Time	Time	
2811 AN-GW-Status	Enumerated	7
2812 User-Location-Info-Time	Grouped	7
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	
2819 RAN-NAS-Release-Cause	OctetString	4
2820 Presence-Reporting-Area-Elements-List	OctetString	4
2821 Presence-Reporting-Area-Identifier	OctetString	4
2822 Presence-Reporting-Area-Information	Grouped	4
2823 Presence-Reporting-Area-Status	Unsigned32	4
2824 NetLoc-Access-Support 2825 Fixed-User-Location-Info	Unsigned32 Grouped	29.212
2826 PCSCF-Restoration-Indication	Unsigned32	[19]
2827 IP-CAN-Session-Charging-Scope	Enumerated	[19]
2828 Monitoring-Flags	Unsigned32	+
2829 Default-Access	Enumerated	7
2830 NBIFOM-Mode	Enumerated	7
2831 NBIFOM-Support	Enumerated	7
2832 RAN-Rule-Support	Unsigned32	7
2833 Access-Availability-Change-Reason	Unsigned32	7
2834 Routing-Rule-Failure-Code	Unsigned32	7
2835 Routing-Rule-Report	Grouped	7
2836 Traffic-Steering-Policy-Identifier-DL	OctetString	7
2837 Traffic-Steering-Policy-Identifier-UL	OctetString	7
2838 Request-Type	Unsigned32	7
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	4
2847 3GPP-PS-Data-Off-Status	Enumerated	4
2848 Extended-APN-AMBR-DL	Unsigned32	4
2849 Extended-APN-AMBR-UL	Unsigned32	4
2850 Extended-GBR-DL	Unsigned32	4
2851 Extended-GBR-UL	Unsigned32	

2852 Max-PLR-DL	Unsigned32	
2853 Max-PLR-UL	Unsigned32	
2854 UE-Status		
Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212.	Unsigned32	
2900 reserved		
2900 reserved 2901 Policy-Counter-Identifier	Grouped	
2902 Policy-Counter-Status	UTF8String	29.219
2903 Policy-Counter-Status-Report	Grouped	
2904 SL-Request-Type	Enumerated	
2904 St-Request-Type 2905 Pending-Policy-Counter-Information	Grouped	[26]
	Time	
2906 Pending-Policy-Counter-Change-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	29.368
3006 Priority-Indication	Enumerated	[27]
3007 Reference-Number	Unsigned32	
3008 Request-Status	Enumerated	
3009 Delivery-Outcome	Enumerated	
3010 Application-Port-Identifier	Unsigned32	
3011 Old-Reference-Number	Unsigned32	
3012 Feature-Supported-In-Final-Target	Unsigned32	
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.		
3100 IP-SM-GW-Number	OctetString	
3101 IP-SM-GW-Name	DiameterIdentity	
3102 User-Identifier	Grouped	
3103 Service-ID	Enumerated	
3104 SCS-Identity	OctetString	
3105 Service-Parameters	Grouped	
3106 T4-Parameters	Grouped	
3107 Service-Data	Grouped	
3108 T4-Data	Grouped	
3109 HSS-Cause	Unsigned32	
3110 SIR-Flags	Unsigned32	
3111 External-Identifier	UTF8String	
3112 IP-SM-GW-Realm	DiameterIdentity	
3113 AESE-Communication-Pattern	Grouped	
3114 Communication-Pattern-Set	Grouped	
3115 Periodic-Communication-Indicator	Unsigned32	
3116 Communication-Duration-Time	Unsigned32	
3117 Periodic-Time	Unsigned32	
3118 Scheduled-Communication-Time	Grouped	29.336
3119 Stationary-Indication	Unsigned32	[28]
3120 AESE-Communication-Pattern-Config-Status	Grouped	
3121 AESE-Error-Report	Grouped	
3122 Monitoring-Event-Configuration	Grouped	
3123 Monitoring-Event-Report	Grouped	
3124 SCEF-Reference-ID	Unsigned32	
3125 SCEF-ID	DiameterIdentity	
3126 SCEF-Reference-ID-for-Deletion	Unsigned32	
3127 Monitoring-Type	Unsigned32	
3128 Maximum-Number-of-Reports	Unsigned32 Unsigned32	
		
3129 UE-Reachability-Configuration	Grouped	
3130 Monitoring-Duration	Time	
3131 Maximum-Detection-Time	Unsigned32 Unsigned32	
LATA (INCOCODODUTY IVOC	LINGIANGA:3:7	
3132 Reachability-Type		
3133 Maximum-Latency	Unsigned32	
3133 Maximum-Latency 3134 Maximum-Response-Time	Unsigned32 Unsigned32	
3133 Maximum-Latency 3134 Maximum-Response-Time 3135 Location-Information-Configuration	Unsigned32 Unsigned32 Grouped	
3133 Maximum-Latency 3134 Maximum-Response-Time	Unsigned32 Unsigned32	

		1
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	Unsigned32	
3154 S6t-HSS-Cause	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	
	Grouped	
3166 Group-Report-Item		
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-Type	Unsigned32	
3183 Traffic-Profile	Unsigned32	
3184 Updated-Network-Configuration	Grouped	
3185 Battery-Indicator	Unsigned32	
Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336.	<u> </u>	
3200 SM-Delivery-Outcome-T4	Enumerated	
3201 Absent-Subscriber-Diagnostic-T4	Enumerated	29.337
3202 Trigger-Action	Unsigned32	[29]
3203 MTC-Error-Diagnostic	Unsigned32	رےی
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.	J J J J J J J J J J J J J J J J J J J	I
3300 SC-Address	OctetString	
3301 SM-RP-UI	OctetString	
3302 TFR-Flags	Unsigned32	
3303 SM-Delivery- Failure-Cause	Grouped	
	Enumerated	
3304 SM-Enumerated-Delivery-Failure-Cause		29.338
3305 SM-Diagnostic-Info	OctetString	[30]
3306 SM-Delivery-Timer	Unsigned32	-
3307 SM-Delivery-Start-Time	Time	
3308 SM-RP-MTI	Enumerated	
3309 SM-RP-SMEA	OctetString	
3310 SRR-Flags	Unsigned32	

3311 SM-Delivery-Not-intended Enumerated Enumerated		_	1
3313 MME-Absent-User-Subscriber-Diagnostic-SM	3311 SM-Delivery-Not-Intended	Enumerated	
3313 MME-Absent-User-Subscriber-Diagnostic-SM	3312 MWD-Status	Unsigned32	
19314 MSC-Absent-User-Subscriber-Diagnostic SM			†
3316 SM-Delvery-Outcome			†
			4
			<u> </u>
	3316 SM-Delivery-Outcome		
	3317 MME-SM-Delivery-Outcome	Grouped	
SGSN-SM-Delivery-Outcome Grouped			1
19320 IP-SM-GW-SM-Delivery-Cutcome			†
SAM-Delivery-Cause			4
3323 Absent-User-Diagnostic-SM			1
	3321 SM-Delivery-Cause	Enumerated	
	3322 Absent-User-Diagnostic-SM	Unsigned32	
3325 MSS-ID		Ŭ	1
3325 Destination-SIP-URI UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3328 Destination-SIP-URI UTF8String 3229 Maximum-UE-Availability-Time Time 3330 Maximum-UE-Availability-Time Time 3331 Requested-Retransmission-Time Time 3331 Requested-Retransmission-Time Time 3332 SMS-GMSC-Address OctefString 3333 Maximum-Retransmission-Time Time 3332 SMS-GMSC-Address OctefString 3333 SMS-GMSC-Address OctefString 3333 SMS-GMSC-Address OctefString 3334 SMS-3GPP-Absent-User-Diagnostic-SM Unsigned32 3335 SMS-Ron-3GPP-Absent-User-Diagnostic-SM Unsigned32 3335 SMS-Ron-3GPP-Absent-User-Diagnostic-SM Unsigned32 3335 SMS-Ron-3GPP-Absent-User-Diagnostic-SM Unsigned32 3335 SMS-Ron-3GPP-Absent-User-Diagnostic-SM Unsigned32 3335 SMS-3GPP-Non-3GPP-SM-Delivery-Outcome Grouped Gr			+
19326 Originating-SIP-URI			1
3327 Destination-SIP-URI			<u> </u>
	3327 Destination-SIP-URI	UTF8String	
Maximum-UE-Availability-Time	3328 OFR-Flags	Unsigned32	
1333 Maximum-Retransmission-Time	3329 Maximum-HF-Δyailahility-Time		†
3331 Requested-Retransmission-Time Time 3332 SMS-GMSC-Address OcteString 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-Non-3GPP-SM-Delivery-Outcome Grouped 3337 SMSF-Non-3GPP-SM-Delivery-Outcome Grouped 3338 SMSF-Non-3GPP-Number OctetString 3340 SMSF-3GPP-Number OctetString 3341 SMSF-Non-3GPP-Number DiameterIdentity 3342 SMSF-3GPP-Name DiameterIdentity 3343 SMSF-Non-3GPP-Name DiameterIdentity 3342 SMSF-3GPP-Realm DiameterIdentity 3343 SMSF-Non-3GPP-Address Grouped 3445 SMSF-Non-3GPP-Address Grouped 3401 Reason-Header UTRString 3401 Reason-Header UTRString 3402 Instance-Id UTF8String 3403 Route-Header-Transmitted UTF8String 3404 SMC-Viewer-Tigger-Information Grouped 3405 SMD-Viewer-Tigger-Information Grouped 3406 SMD-Viewer-Tigger-Information Grouped			
SMS-GMSC-Alert-Event			4
3333 SMS-GMSC-Alert-Event			<u> </u>
3333 SMS-GMSC-Alert-Event	3332 SMS-GMSC-Address	OctetString	1
SMSF-3GPP-Absent-User-Diagnostic-SM			
3336 SMSF-Non-3GPP-Absent-User-Diagnostic-SM			1
3336 SMSF-3GPP-SM-Delivery-Outcome Grouped			†
SMSF-Non-3GPP-SM-Delivery-Outcome Grouped			4
3338 SMSF-3GPP-Number			4
3340 SMSF-Non-3GPP-Number			1
SMSF-Non-3GPP-Name DiameterIdentity	3338 SMSF-3GPP-Number	OctetString	
SMSF-Non-3GPP-Name DiameterIdentity	3339 SMSF-Non-3GPP-Number	OctetString	
SMSF-Non-3GPP-Name	3340 SMSF-3GPP-Name	DiameterIdentity	1
3342 SMSF-3GPP-Realm			1
3343 SMSF-Non-3GPP-Realm			+
SMSF-3GPP-Address Grouped			4
SMSF-Non-3GPP-Address Grouped			1
Note: The AVP codes from 3346 to 3399 are reserved for TS 29.338.		Grouped	
3400 reserved 3401 Reason-Header	3345 SMSF-Non-3GPP-Address	Grouped	
3400 reserved 3401 Reason-Header	Note: The AVP codes from 3346 to 3399 are reserved for TS 29.338.	<u> </u>	•
Reason-Header		_	
3402 Instance-Id		LITEQCtring	+
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 3408 SM-Sequence-Number Unsigned32 3409 SMS-Result Unsigned32 3410 VCS-Information Grouped 3411 Basic-Service-Code Grouped 3412 Bearer-Capability OctetString 3413 Teleservice OctetString 3414 ISUP-Location-Number OctetString 3415 Forwarding-Pending Enumerated 3416 ISUP-Release-Cause Unsigned32 3417 MSC-Address OctetString 3418 Network-Call-Reference-Number OctetString 3419 Start-of-Charging Time 3420 VLR-Number OctetString 3421 CN-Operator-Selection-Entity Enumerated 3422 ISUP-Cause-Diagnostics OctetString 3423 IS	9 10 1 110 10 10 10		4
3405 SM-Device-Trigger-Information Grouped 3406 MTC-IWF-Address Address 3407 SM-Device-Trigger-Indicator Enumerated 3408 SM-Sequence-Number Unsigned32 3409 SMS-Result Unsigned32 3410 VCS-Information Grouped 3411 Basic-Service-Code Grouped 3412 Bearer-Capability OctetString 3413 Teleservice OctetString 3414 ISUP-Location-Number OctetString 3415 Forwarding-Pending Enumerated 3416 ISUP-Release-Cause Unsigned32 3417 MSC-Address OctetString 3418 Network-Call-Reference-Number OctetString 3419 Start-of-Charging Time 3420 VLR-Number OctetString 3421 CN-Operator-Selection-Entity Enumerated 3422 ISUP-Cause-Location Unsigned32 3423 ISUP-Cause-Value Unsigned32 3426 Announcing-UE-			1
3406 MTC-IWF-Address Address 3407 SM-Device-Trigger-Indicator Enumerated 3408 SM-Sequence-Number Unsigned32 3409 SMS-Result Unsigned32 3410 VCS-Information Grouped 3411 Basic-Service-Code Grouped 3412 Bearer-Capability OctetString 3413 Teleservice OctetString 3414 ISUP-Location-Number OctetString 3415 Forwarding-Pending Enumerated 3416 ISUP-Release-Cause Unsigned32 3417 MSC-Address OctetString 3418 Network-Call-Reference-Number OctetString 3419 Start-of-Charging Time 3420 VLR-Number OctetString 3421 CN-Operator-Selection-Entity Enumerated 3422 ISUP-Cause-Diagnostics OctetString 3423 ISUP-Cause-Value Unsigned32 3424 ISUP-Cause-Value Unsigned32 3425 EPDG-Address	3404 Route-Header-Transmitted	UTF8String	
3406 MTC-IWF-Address Address 3407 SM-Device-Trigger-Indicator Enumerated 3408 SM-Sequence-Number Unsigned32 3409 SMS-Result Unsigned32 3410 VCS-Information Grouped 3411 Basic-Service-Code Grouped 3412 Bearer-Capability OctetString 3413 Teleservice OctetString 3414 ISUP-Location-Number OctetString 3415 Forwarding-Pending Enumerated 3416 ISUP-Release-Cause Unsigned32 3417 MSC-Address OctetString 3418 Network-Call-Reference-Number OctetString 3419 Start-of-Charging Time 3420 VLR-Number OctetString 3421 CN-Operator-Selection-Entity Enumerated 3422 ISUP-Cause-Diagnostics OctetString 3423 ISUP-Cause-Value Unsigned32 3424 ISUP-Cause-Value Unsigned32 3425 EPDG-Address	3405 SM-Device-Trigger-Information	Grouped	
3407SM-Device-Trigger-IndicatorEnumerated3408SM-Sequence-NumberUnsigned323409SMS-ResultUnsigned323410VCS-InformationGrouped3411Basic-Service-CodeGrouped3412Bearer-CapabilityOctetString3413TeleserviceOctetString3414ISUP-Location-NumberOctetString3415Forwarding-PendingEnumerated3416ISUP-Release-CauseUnsigned323417MSC-AddressOctetString3418Network-Call-Reference-NumberOctetString3419Start-of-ChargingTime3420VLR-NumberOctetString3421CN-Operator-Selection-EntityEnumerated3422ISUP-Cause-DiagnosticsOctetString3423ISUP-Cause-LocationUnsigned323424ISUP-Cause-ValueUnsigned323425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String			1
3408 SM-Sequence-Number 3409 SMS-Result 3410 VCS-Information 3411 Basic-Service-Code 3412 Bearer-Capability 3413 Teleservice 3414 ISUP-Location-Number 3415 Forwarding-Pending 3416 ISUP-Release-Cause 3417 MSC-Address 3418 Network-Call-Reference-Number 3419 Start-of-Charging 3419 Start-of-Charging 3410 VCR-Number 3410 SUP-Release-Cause 3411 Network-Call-Reference-Number 3412 CN-Operator-Selection-Entity 3413 ISUP-Cause-Diagnostics 3414 ISUP-Cause-Value 3415 ISUP-Cause-Value 3416 Unsigned32 3417 MSC-Address 3418 Network-Call-Reference-Number 3419 Start-of-Charging 3419 Start-of-Charging 3410 Unsigned32 3421 ISUP-Cause-Diagnostics 3421 Unsigned32 3422 ISUP-Cause-Value 3422 Unsigned32 3424 ISUP-Cause-Value 3425 EPDG-Address 3426 Announcing-UE-HPLMN-Identifier 3427 Announcing-UE-PPLMN-Identifier 3427 UTF8String			1
3409 SMS-Result Unsigned32 3410 VCS-Information Grouped 3411 Basic-Service-Code Grouped 3412 Bearer-Capability OctetString 3413 Teleservice OctetString 3414 ISUP-Location-Number OctetString 3415 Forwarding-Pending Enumerated 3416 ISUP-Release-Cause Unsigned32 3417 MSC-Address OctetString 3418 Network-Call-Reference-Number OctetString 3419 Start-of-Charging Time 3420 VLR-Number OctetString 3421 CN-Operator-Selection-Entity Enumerated 3422 ISUP-Cause-Diagnostics OctetString 3423 ISUP-Cause-Location Unsigned32 3424 ISUP-Cause-Value Unsigned32 3425 EPDG-Address Address 3426 Announcing-UE-HPLMN-Identifier UTF8String	2400 CM Coguence Number		1
3410 VCS-Information Grouped 3411 Basic-Service-Code Grouped 3412 Bearer-Capability OctetString 3413 Teleservice OctetString 3414 ISUP-Location-Number OctetString 3415 Forwarding-Pending Enumerated 3416 ISUP-Release-Cause Unsigned32 3417 MSC-Address OctetString 3418 Network-Call-Reference-Number OctetString 3419 Start-of-Charging Time 3420 VLR-Number OctetString 3421 CN-Operator-Selection-Entity Enumerated 3422 ISUP-Cause-Diagnostics OctetString 3423 ISUP-Cause-Location Unsigned32 3424 ISUP-Cause-Value Unsigned32 3425 EPDG-Address Address 3426 Announcing-UE-HPLMN-Identifier UTF8String 3427 Announcing-UE-VPLMN-Identifier UTF8String		Ŭ	4
3411Basic-Service-CodeGrouped3412Bearer-CapabilityOctetString3413TeleserviceOctetString3414ISUP-Location-NumberOctetString3415Forwarding-PendingEnumerated3416ISUP-Release-CauseUnsigned323417MSC-AddressOctetString3418Network-Call-Reference-NumberOctetString3419Start-of-ChargingTime3420VLR-NumberOctetString3421CN-Operator-Selection-EntityEnumerated3422ISUP-Cause-DiagnosticsOctetString3423ISUP-Cause-LocationUnsigned323424ISUP-Cause-ValueUnsigned323425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String			1
3412Bearer-CapabilityOctetString3413TeleserviceOctetString3414ISUP-Location-NumberOctetString3415Forwarding-PendingEnumerated3416ISUP-Release-CauseUnsigned323417MSC-AddressOctetString3418Network-Call-Reference-NumberOctetString3419Start-of-ChargingTime3420VLR-NumberOctetString3421CN-Operator-Selection-EntityEnumerated3422ISUP-Cause-DiagnosticsOctetString3423ISUP-Cause-LocationUnsigned323424ISUP-Cause-ValueUnsigned323425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String	3410 VCS-Information	Grouped	
3412Bearer-CapabilityOctetString3413TeleserviceOctetString3414ISUP-Location-NumberOctetString3415Forwarding-PendingEnumerated3416ISUP-Release-CauseUnsigned323417MSC-AddressOctetString3418Network-Call-Reference-NumberOctetString3419Start-of-ChargingTime3420VLR-NumberOctetString3421CN-Operator-Selection-EntityEnumerated3422ISUP-Cause-DiagnosticsOctetString3423ISUP-Cause-LocationUnsigned323424ISUP-Cause-ValueUnsigned323425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String	3411 Basic-Service-Code	Grouped	
3413TeleserviceOctetString3414ISUP-Location-Number32.299 [5]3415Forwarding-PendingEnumerated3416ISUP-Release-CauseUnsigned323417MSC-AddressOctetString3418Network-Call-Reference-NumberOctetString3419Start-of-ChargingTime3420VLR-NumberOctetString3421CN-Operator-Selection-EntityEnumerated3422ISUP-Cause-DiagnosticsOctetString3423ISUP-Cause-LocationUnsigned323424ISUP-Cause-ValueUnsigned323425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String			1
3414 ISUP-Location-Number OctetString 32.299 [5] 3415 Forwarding-Pending Enumerated 3416 ISUP-Release-Cause Unsigned32 3417 MSC-Address OctetString 3418 Network-Call-Reference-Number Time 3419 Start-of-Charging Time 3420 VLR-Number OctetString 3421 CN-Operator-Selection-Entity Enumerated 3422 ISUP-Cause-Diagnostics OctetString 3423 ISUP-Cause-Location Unsigned32 3424 ISUP-Cause-Value Unsigned32 3425 EPDG-Address Address 3426 Announcing-UE-HPLMN-Identifier UTF8String 3427 Announcing-UE-VPLMN-Identifier UTF8String			†
3415 Forwarding-Pending 3416 ISUP-Release-Cause 3417 MSC-Address 3418 Network-Call-Reference-Number 3419 Start-of-Charging 3420 VLR-Number 3421 CN-Operator-Selection-Entity 3422 ISUP-Cause-Diagnostics 3423 ISUP-Cause-Location 3424 ISUP-Cause-Value 3425 EPDG-Address 3426 Announcing-UE-HPLMN-Identifier 3427 Announcing-UE-VPLMN-Identifier		Ŭ	22 200 [5]
3416ISUP-Release-CauseUnsigned323417MSC-AddressOctetString3418Network-Call-Reference-NumberOctetString3419Start-of-ChargingTime3420VLR-NumberOctetString3421CN-Operator-Selection-EntityEnumerated3422ISUP-Cause-DiagnosticsOctetString3423ISUP-Cause-LocationUnsigned323424ISUP-Cause-ValueUnsigned323425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String			Joz.288 [5]
3417MSC-AddressOctetString3418Network-Call-Reference-NumberOctetString3419Start-of-ChargingTime3420VLR-NumberOctetString3421CN-Operator-Selection-EntityEnumerated3422ISUP-Cause-DiagnosticsOctetString3423ISUP-Cause-LocationUnsigned323424ISUP-Cause-ValueUnsigned323425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String			
3418Network-Call-Reference-NumberOctetString3419Start-of-ChargingTime3420VLR-NumberOctetString3421CN-Operator-Selection-EntityEnumerated3422ISUP-Cause-DiagnosticsOctetString3423ISUP-Cause-LocationUnsigned323424ISUP-Cause-ValueUnsigned323425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String			<u>↓</u>
3418Network-Call-Reference-NumberOctetString3419Start-of-ChargingTime3420VLR-NumberOctetString3421CN-Operator-Selection-EntityEnumerated3422ISUP-Cause-DiagnosticsOctetString3423ISUP-Cause-LocationUnsigned323424ISUP-Cause-ValueUnsigned323425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String	3417 MSC-Address	OctetString	1
3419Start-of-ChargingTime3420VLR-NumberOctetString3421CN-Operator-Selection-EntityEnumerated3422ISUP-Cause-DiagnosticsOctetString3423ISUP-Cause-LocationUnsigned323424ISUP-Cause-ValueUnsigned323425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String	3418 Network-Call-Reference-Number		
3420VLR-NumberOctetString3421CN-Operator-Selection-EntityEnumerated3422ISUP-Cause-DiagnosticsOctetString3423ISUP-Cause-LocationUnsigned323424ISUP-Cause-ValueUnsigned323425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String			1
3421CN-Operator-Selection-EntityEnumerated3422ISUP-Cause-DiagnosticsOctetString3423ISUP-Cause-LocationUnsigned323424ISUP-Cause-ValueUnsigned323425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String			†
3422ISUP-Cause-DiagnosticsOctetString3423ISUP-Cause-LocationUnsigned323424ISUP-Cause-ValueUnsigned323425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String			1
3423ISUP-Cause-LocationUnsigned323424ISUP-Cause-ValueUnsigned323425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String			1
3424ISUP-Cause-ValueUnsigned323425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String			4
3425EPDG-AddressAddress3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String			1
3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String			1
3426Announcing-UE-HPLMN-IdentifierUTF8String3427Announcing-UE-VPLMN-IdentifierUTF8String	3425 EPDG-Address		
3427 Announcing-UE-VPLMN-Identifier UTF8String			†
	I3426 IAnnouncing-UE-HPLMN-Identifier	UTF8String	
S420 Coverage-Status Enumerated			1
	3427 Announcing-UE-VPLMN-Identifier	UTF8String	

3429 Layer-2-Group-ID	OctetString	
3430 Monitored-PLMN-Identifier	UTF8String	Ī
3431 Monitoring-UE-HPLMN-Identifier	UTF8String	1
3432 Monitoring-UE-Identifier	UTF8String	İ
3433 Monitoring-UE-VPLMN-Identifier	UTF8String	†
3434 ProSe-PC3-Control-Protocol-Cause	Integer32	†
3435 ProSe-PC3-EPC-Control-Protocol-Cause	Integer32	+
	IIIlegeroz	+
3436 Requested-PLMN-Identifier	UTF8String	1
3437 Requestor-PLMN-Identifier	UTF8String	
3438 Role-Of-ProSe-Function	Enumerated	1
3439 Usage-Information-Report-Sequence-Number	Integer32	1
3440 ProSe-3rd-Party-Application-ID	UTF8String	
3441 ProSe-Direct-Communication-Transmission-Data-Container	Grouped	Ī
3442 ProSe-Direct-Discovery-Model	Enumerated	
3443 ProSe-Event-Type	Enumerated	†
3444 ProSe-Function-IP-Address	Address	İ
3445 ProSe-Functionality	Enumerated	†
3446 ProSe-Group-IP-Multicast-Addresses	Address	+
		}
3447 ProSe-Information	Grouped	1
3448 ProSe-Range-Class	Enumerated	1
3449 ProSe-Reason-For-Cancellation	Enumerated	1
3450 ProSe-Request-Timestamp	Time]
3451 ProSe-Role-Of-UE	Enumerated	
3452 ProSe-Source-IP-Address	Address	Ī
3453 ProSe-UE-ID	OctetString	İ
3454 Proximity-Alert-Indication	Enumerated	†
3455 Proximity-Alert-Timestamp	Time	†
3456 Proximity-Cancellation-Timestamp	Time	+
		+
3457 ProSe-Function-PLMN-Identifier	UTF8String	1
3458 Application-Specific-Data	OctetString	
3459 Coverage-Info	Grouped	1
3460 Location-Info	Grouped	
3461 ProSe-Direct-Communication-Reception-Data-Container	Grouped	
3462 Radio-Frequency	OctetString	Ī
3463 Radio-Parameter-Set-Info	Grouped	†
3464 Radio-Parameter-Set-Values	OctetString	†
3465 Radio-Resources-Indicator	Integer32	†
3466 Time-First-Reception	Time	+
		+
3467 Time-First-Transmission	Time	
3468 Transmitter-Info	Grouped	
Note: The AVP codes from 3469 to 3499 are reserved for TS 32.299.		
3500 BMSC-Address	Address	1
3501 BMSC-Port	Unsigned32	
3502 MBMS-Bearer-Event	Unsigned32	Ī
	Grouped	Ť
ISDUS IIVIBIVIS-BEARER-EVENT-NOTITICATION	Gloubed	
3503 MBMS-Bearer-Event-Notification 3504 MBMS-Bearer-Request		†
3504 MBMS-Bearer-Request	Grouped	
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response	Grouped Grouped	
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result	Grouped Grouped Unsigned32	
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time	Grouped Grouped Unsigned32 Time	
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency	Grouped Grouped Unsigned32 Time Unsigned32	
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request	Grouped Grouped Unsigned32 Time Unsigned32 Grouped	
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request 3510 TMGI-Allocation-Response	Grouped Grouped Unsigned32 Time Unsigned32 Grouped Grouped	
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request 3510 TMGI-Allocation-Response 3511 TMGI-Allocation-Result	Grouped Grouped Unsigned32 Time Unsigned32 Grouped	29.468
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request 3510 TMGI-Allocation-Response	Grouped Grouped Unsigned32 Time Unsigned32 Grouped Grouped	29.468 [31]
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request 3510 TMGI-Allocation-Response 3511 TMGI-Allocation-Result 3512 TMGI-Deallocation-Request	Grouped Grouped Unsigned32 Time Unsigned32 Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped	-
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request 3510 TMGI-Allocation-Response 3511 TMGI-Allocation-Result 3512 TMGI-Deallocation-Response	Grouped Grouped Unsigned32 Time Unsigned32 Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped Grouped Grouped	-
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request 3510 TMGI-Allocation-Response 3511 TMGI-Allocation-Result 3512 TMGI-Deallocation-Request 3513 TMGI-Deallocation-Response 3514 TMGI-Deallocation-Response	Grouped Grouped Unsigned32 Time Unsigned32 Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32	-
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request 3510 TMGI-Allocation-Response 3511 TMGI-Allocation-Result 3512 TMGI-Deallocation-Request 3513 TMGI-Deallocation-Response 3514 TMGI-Deallocation-Result 3515 TMGI-Deallocation-Result	Grouped Grouped Unsigned32 Time Unsigned32 Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Grouped Grouped Grouped Unsigned32 Grouped	-
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request 3510 TMGI-Allocation-Response 3511 TMGI-Allocation-Result 3512 TMGI-Deallocation-Request 3513 TMGI-Deallocation-Response 3514 TMGI-Deallocation-Result 3515 TMGI-Deallocation-Result 3515 TMGI-Expiry 3516 TMGI-Number	Grouped Grouped Unsigned32 Time Unsigned32 Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32	-
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request 3510 TMGI-Allocation-Response 3511 TMGI-Allocation-Result 3512 TMGI-Deallocation-Request 3513 TMGI-Deallocation-Response 3514 TMGI-Deallocation-Result 3515 TMGI-Deallocation-Result 3515 TMGI-Expiry 3516 TMGI-Number 3517 MB2U-Security	Grouped Grouped Unsigned32 Time Unsigned32 Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32	-
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request 3510 TMGI-Allocation-Response 3511 TMGI-Allocation-Result 3512 TMGI-Deallocation-Request 3513 TMGI-Deallocation-Response 3514 TMGI-Deallocation-Result 3515 TMGI-Deallocation-Result 3516 TMGI-Starity 3516 TMGI-Number 3517 MB2U-Security 3518 Local-M1-Information	Grouped Grouped Unsigned32 Time Unsigned32 Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Grouped Unsigned32 Grouped	-
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request 3510 TMGI-Allocation-Response 3511 TMGI-Allocation-Result 3512 TMGI-Deallocation-Request 3513 TMGI-Deallocation-Response 3514 TMGI-Deallocation-Result 3515 TMGI-Deallocation-Result 3516 TMGI-Expiry 3516 TMGI-Number 3517 MB2U-Security 3518 Local-M1-Information 3519 Local-MB2-U-Information	Grouped Grouped Unsigned32 Time Unsigned32 Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped	-
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request 3510 TMGI-Allocation-Response 3511 TMGI-Allocation-Result 3512 TMGI-Deallocation-Request 3513 TMGI-Deallocation-Response 3514 TMGI-Deallocation-Result 3515 TMGI-Deallocation-Result 3515 TMGI-Expiry 3516 TMGI-Number 3517 MB2U-Security 3518 Local-M1-Information 3519 Local-MB2-U-Information 3520 MBMS-eNB-IP-Multicast-Address	Grouped Grouped Unsigned32 Time Unsigned32 Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Address	-
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request 3510 TMGI-Allocation-Response 3511 TMGI-Allocation-Result 3512 TMGI-Deallocation-Request 3513 TMGI-Deallocation-Response 3514 TMGI-Deallocation-Response 3515 TMGI-Deallocation-Result 3515 TMGI-Expiry 3516 TMGI-Number 3517 MB2U-Security 3518 Local-M1-Information 3519 Local-MB2-U-Information 3520 MBMS-eNB-IP-Multicast-Address	Grouped Grouped Unsigned32 Time Unsigned32 Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Address Address	-
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request 3510 TMGI-Allocation-Response 3511 TMGI-Allocation-Result 3512 TMGI-Deallocation-Request 3513 TMGI-Deallocation-Response 3514 TMGI-Deallocation-Result 3515 TMGI-Deallocation-Result 3515 TMGI-Expiry 3516 TMGI-Number 3517 MB2U-Security 3518 Local-M1-Information 3519 Local-MB2-U-Information 3520 MBMS-eNB-IP-Multicast-Address	Grouped Grouped Unsigned32 Time Unsigned32 Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Address	-
3504 MBMS-Bearer-Request 3505 MBMS-Bearer-Response 3506 MBMS-Bearer-Result 3507 MBMS-Start-Time 3508 Radio-Frequency 3509 TMGI-Allocation-Request 3510 TMGI-Allocation-Response 3511 TMGI-Allocation-Result 3512 TMGI-Deallocation-Request 3513 TMGI-Deallocation-Response 3514 TMGI-Deallocation-Result 3515 TMGI-Expiry 3516 TMGI-Number 3517 MB2U-Security 3518 Local-M1-Information 3519 Local-MB2-U-Information 3520 MBMS-eNB-IP-Multicast-Address	Grouped Grouped Unsigned32 Time Unsigned32 Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Address Address	-

3524 Common-Tunnel-Endpoint-Identifier	OctetString	
3525 FEC-Request	OctetString	
3526 ROHC-Request	Grouped	
3527 ROHC-Request 3527 ROHC-Full-Header-Periodicity	Float32	
3528 ROHC-Profile	Unsigned32	
3529 Userplane-Protocol-Result	Grouped	
3530 ROHC-Result	Unsigned32	
3531 FEC-Result	Unsigned32	
3532 ROHC-Max-CID	Unsigned32	
Note: The AVP codes from 3533 to 3599 are reserved for TS 29.468.	Unsigned32	
	LITEOChring	
3600 Origin-App-Layer-User-Id	UTF8String UTF8String	
3601 Target-App-Layer-User-Id		 }
3602 ProSe-Function-ID	OctetString	
3603 ProSe-Request-Type	Unsigned32	
3604 PDUID	OctetString	
3605 Application-Data	UTF8String	29.343
3606 Allowed-Suffixes-Number	Unsigned32	[32]
3607 Monitor-Target	Grouped	
3608 ProSe-Code-Suffix-Mask	Grouped	
3609 Suffix-Code	OctetString	
3610 Suffix-Mask	OctetString	
3611 Banned-User-Target	Grouped	
3612 Metadata-Indicator	Unsigned32	
Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343.		
3701 ProSe-Subscription-Data	Grouped	
3702 ProSe-Permission	Unsigned32	
3703 ProSe-Allowed-PLMN	Grouped	
3704 ProSe-Direct-Allowed	Unsigned32	29.344
3705 UPR-Flags	Unsigned32	[33]
3706 PNR-Flags	Unsigned32	
3707 ProSe-Initial-Location-Information	Grouped	
3708 Authorized-Discovery-Range	Unsigned32	
Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344.		
3800 Reserved		
3801 App-Layer-User-Id	UTF8String	
3802 Assistance-info	Grouped	
3803 Assistance-Info-Validity-Timer	Unsigned32	
3804 Discovery-Type	Unsigned32	
3805 Filter-Id	OctetString	
3806 MAC-Address	UTF8String	
3807 Match-Report	Grouped	
3808 Operating-Channel	Unsigned32	
3809 P2P-Features	Unsigned32	
3810 ProSe-App-Code	UTF8String	
3811 ProSe-App-Id	UTF8String	
3812 ProSe-App-Mask		
3812 ProSe-App-Mask 3813 ProSe-Discovery-Filter	UTF8String	
3813 ProSe-Discovery-Filter	UTF8String Grouped	
3813 ProSe-Discovery-Filter 3814 PRR-Flags	UTF8String Grouped Unsigned32	29.345
3813 ProSe-Discovery-Filter3814 PRR-Flags3815 ProSe-Validity-Timer	UTF8String Grouped Unsigned32 Unsigned32	29.345
3813 ProSe-Discovery-Filter 3814 PRR-Flags 3815 ProSe-Validity-Timer 3816 Requesting-EPUID	UTF8String Grouped Unsigned32 Unsigned32 UTF8String	29.345
3813 ProSe-Discovery-Filter 3814 PRR-Flags 3815 ProSe-Validity-Timer 3816 Requesting-EPUID 3817 Targeted-EPUID	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String	
3813 ProSe-Discovery-Filter 3814 PRR-Flags 3815 ProSe-Validity-Timer 3816 Requesting-EPUID 3817 Targeted-EPUID 3818 Time-Window	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Unsigned32	
3813 ProSe-Discovery-Filter 3814 PRR-Flags 3815 ProSe-Validity-Timer 3816 Requesting-EPUID 3817 Targeted-EPUID 3818 Time-Window 3819 WiFi-P2P-Assistance-Info	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String Unsigned32 Grouped	
3813 ProSe-Discovery-Filter 3814 PRR-Flags 3815 ProSe-Validity-Timer 3816 Requesting-EPUID 3817 Targeted-EPUID 3818 Time-Window 3819 WiFi-P2P-Assistance-Info 3820 WLAN-Assistance-Info	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Grouped Grouped	
3813 ProSe-Discovery-Filter 3814 PRR-Flags 3815 ProSe-Validity-Timer 3816 Requesting-EPUID 3817 Targeted-EPUID 3818 Time-Window 3819 WiFi-P2P-Assistance-Info 3820 WLAN-Assistance-Info 3821 WLAN-Link-Layer-Id	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Grouped Grouped OctetString	
3813 ProSe-Discovery-Filter 3814 PRR-Flags 3815 ProSe-Validity-Timer 3816 Requesting-EPUID 3817 Targeted-EPUID 3818 Time-Window 3819 WiFi-P2P-Assistance-Info 3820 WLAN-Assistance-Info 3821 WLAN-Link-Layer-Id 3822 WLAN-Link-Layer-Id-List	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Grouped Grouped Grouped OctetString Grouped	
3813 ProSe-Discovery-Filter 3814 PRR-Flags 3815 ProSe-Validity-Timer 3816 Requesting-EPUID 3817 Targeted-EPUID 3818 Time-Window 3819 WiFi-P2P-Assistance-Info 3820 WLAN-Assistance-Info 3821 WLAN-Link-Layer-Id 3822 WLAN-Link-Layer-Id-List 3823 Location-Update-Trigger	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Grouped Grouped Grouped OctetString Grouped Grouped	
3813 ProSe-Discovery-Filter 3814 PRR-Flags 3815 ProSe-Validity-Timer 3816 Requesting-EPUID 3817 Targeted-EPUID 3818 Time-Window 3819 WiFi-P2P-Assistance-Info 3820 WLAN-Assistance-Info 3821 WLAN-Link-Layer-Id 3822 WLAN-Link-Layer-Id-List 3823 Location-Update-Trigger 3824 Location-Update-Event-Type	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String Unsigned32 Grouped Grouped OctetString Grouped Grouped Grouped Grouped Unsigned32	
3813 ProSe-Discovery-Filter 3814 PRR-Flags 3815 ProSe-Validity-Timer 3816 Requesting-EPUID 3817 Targeted-EPUID 3818 Time-Window 3819 WiFi-P2P-Assistance-Info 3820 WLAN-Assistance-Info 3821 WLAN-Link-Layer-Id 3822 WLAN-Link-Layer-Id-List 3823 Location-Update-Trigger 3824 Location-Update-Event-Type 3825 Change-Of-Area-Type	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String Unsigned32 Grouped Grouped OctetString Grouped Grouped Grouped Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Unsigned32 Grouped	
3813 ProSe-Discovery-Filter 3814 PRR-Flags 3815 ProSe-Validity-Timer 3816 Requesting-EPUID 3817 Targeted-EPUID 3818 Time-Window 3819 WiFi-P2P-Assistance-Info 3820 WLAN-Assistance-Info 3821 WLAN-Link-Layer-Id 3822 WLAN-Link-Layer-Id-List 3823 Location-Update-Trigger 3824 Location-Update-Event-Type 3825 Change-Of-Area-Type 3826 Location-Update-Event-Trigger	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String Unsigned32 Grouped Grouped OctetString Grouped Grouped Unsigned32 Grouped Grouped Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32	
3813 ProSe-Discovery-Filter 3814 PRR-Flags 3815 ProSe-Validity-Timer 3816 Requesting-EPUID 3817 Targeted-EPUID 3818 Time-Window 3819 WiFi-P2P-Assistance-Info 3820 WLAN-Assistance-Info 3821 WLAN-Link-Layer-Id 3822 WLAN-Link-Layer-Id-List 3823 Location-Update-Trigger 3824 Location-Update-Event-Type 3825 Change-Of-Area-Type 3826 Location-Update-Event-Trigger 3827 Report-Cardinality	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String Unsigned32 Grouped Grouped OctetString Grouped Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Enumerated	
3813 ProSe-Discovery-Filter 3814 PRR-Flags 3815 ProSe-Validity-Timer 3816 Requesting-EPUID 3817 Targeted-EPUID 3818 Time-Window 3819 WiFi-P2P-Assistance-Info 3820 WLAN-Assistance-Info 3821 WLAN-Link-Layer-Id 3822 WLAN-Link-Layer-Id-List 3823 Location-Update-Trigger 3824 Location-Update-Trigger 3825 Change-Of-Area-Type 3826 Location-Update-Event-Trigger 3827 Report-Cardinality 3828 Minimum-Interval-Time	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Unsigned32 Grouped Grouped Grouped OctetString Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Enumerated Unsigned32	
3813 ProSe-Discovery-Filter 3814 PRR-Flags 3815 ProSe-Validity-Timer 3816 Requesting-EPUID 3817 Targeted-EPUID 3818 Time-Window 3819 WiFi-P2P-Assistance-Info 3820 WLAN-Assistance-Info 3821 WLAN-Link-Layer-Id 3822 WLAN-Link-Layer-Id-List 3823 Location-Update-Trigger 3824 Location-Update-Event-Type 3825 Change-Of-Area-Type 3826 Location-Update-Event-Trigger 3827 Report-Cardinality 3828 Minimum-Interval-Time 3829 Periodic-Location-Type	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String Unsigned32 Grouped Grouped Grouped OctetString Grouped Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Enumerated Unsigned32 Grouped	
3813 ProSe-Discovery-Filter 3814 PRR-Flags 3815 ProSe-Validity-Timer 3816 Requesting-EPUID 3817 Targeted-EPUID 3818 Time-Window 3819 WiFi-P2P-Assistance-Info 3820 WLAN-Assistance-Info 3821 WLAN-Link-Layer-Id 3822 WLAN-Link-Layer-Id-List 3823 Location-Update-Trigger 3824 Location-Update-Event-Type 3825 Change-Of-Area-Type 3826 Location-Update-Event-Trigger 3827 Report-Cardinality 3828 Minimum-Interval-Time	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Unsigned32 Grouped Grouped Grouped OctetString Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Enumerated Unsigned32	

	[
	Validity-Time-Announce	Unsigned32	
	Validity-Time-Monitor	Unsigned32	
	Validity-Time-Communication	Unsigned32	
3835	ProSe-App-Code-Info	Grouped OctetString	
	UTC-based-Counter	Unsigned32	
	ProSe-Match-Refresh-Timer	Unsigned32	
	ProSe-Metadata-Index-Mask	OctetString	
	App-Identifier	Grouped	
	OS-ID	OctetString	
	OS-App-ID	UTF8String	
	Requesting-RPAUID	UTF8String	
	Target-RPAUID	UTF8String	
	Target-PDUID	OctetString	
	ProSe-Restricted-Code	OctetString	,
3847	ProSe-Restricted-Code-Suffix-Range	OctetString	
3848	Beginning-Suffix	OctetString	
3849	Ending-Suffix	OctetString	
3850	Discovery-Entry-ID	Unsigned32	
3851	Match-Timestamp	Time	
	PMR-Flags	Unsigned32	
	ProSe-Application-Metadata	UTF8String	
	Discovery-Auth-Request	Grouped	
	Discovery-Auth-Response	Grouped	
	Match-Request	Grouped	
	Match-Report-Info	Grouped	
	Banned-RPAUID	UTF8String	
	Banned-PDUID	OctetString	
	Code-Receiving-Security-Material	Grouped	
	Code-Sending-Security-Material	Grouped	
	DUSK DUIK	OctetString	
	DUCK	OctetString OctetString	
	MIC-Check-indicator	Unsigned32	
	Encrypted-Bitmask	OctetString	
	ProSe-App-Code-Suffix-Range	OctetString	
	PC5-tech	OctetString	
	The AVP codes from 3869 to 3899 are reserved for TS 29.345.	Octetotring	
	Reserved		
	Enhanced-Diagnostics	Grouped	
	Inter-UE-Transfer	Enumerated	
	TWAG-Address	Address	
	Announcement-Information	Grouped	
	Announcement-Identifier	Unsigned32	
	Announcement-Order	Unsigned32	,
	Variable-Part	Grouped	
3908	Variable-Part-Order	Unsigned32	
3909	Variable-Part-Type	Unsigned32	
3910	Variable-Part-Value	UTF8String	
3911	Time-Indicator	Unsigned32	
3912	Quota-Indicator	Enumerated	
3913	Play-Alternative	Enumerated	32.299 [5]
	Language	UTF8String	
	Privacy-Indicator	Enumerated	
	Called-Identity	UTF8String	
	Called-Identity-Change	Grouped	
	UWAN-User-Location-Info	Grouped	
	Monitoring-Event-Configuration-Activity	Integer32	
	Monitoring-Event-Report-Data	Grouped	
	Monitoring-Event-Information	Grouped	
	Monitoring-Event-Functionality	Integer32	
	Monitoring-Event-Report-Number	Unsigned32	
	Cellular-Network-Information	OctetString	
	Related-Change-Condition-Information	Grouped	
3926	Related-Trigger	Grouped	

[
3927 CPDT-Information		Grouped	
3928 NIDD-Submission	***	Grouped	
3929 Serving-Node-Iden		DiameterIdentity	
3930 CP-CloT-EPS-Opti		Enumerated Enumerated	
3932 UNI-PDU-CP-Only-		Enumerated	
3933 APN-Rate-Control	riay	Grouped	
3934 APN-Rate-Control-	Downlink	Grouped	
3935 APN-Rate-Control-		Grouped	
3936 Additional-Exception		Enumerated	
3937 Rate-Control-Max-I		Unsigned32	
3938 Rate-Control-Max-F		Unsigned32	
3939 Rate-Control-Time-		Unsigned32	
3940 SCS-AS-Address		Grouped	
3941 SCS-Address		Address	
3942 SCS-Realm		DiameterIdentity	
Note: The AVP codes from	m 3943 to 3999 are reserved for TS 32.29	9.	•
4000 Aggregated-Conge	stion-Info	Grouped	
4001 Aggregated-RUCI-I	Report	Grouped	
4002 Congestion-Level-D		Grouped	
4003 Congestion-Level-F		Unsigned32	
4004 Congestion-Level-S		Unsigned32	
4005 Congestion-Level-\		Unsigned32	
4006 Congestion-Location		Grouped	29.217
4007 Conditional-Restric	tion	Unsigned32	[35]
4008 eNodeB-Id		OctetString	
4009 IMSI-List		OctetString	
4010 RCAF-Id		DiameterIdentity	
4011 Reporting-Restriction	on	Unsigned32	
4012 RUCI-Action	ID.	Unsigned32	
4013 Extended-eNodeB-	טו m 4014 to 4099 are reserved for TS 29.21	OctetString	
4101 Network-Congestio		Grouped	29.153
4102 Ns-Request-Type	II-Alea-Report	Unsigned32	[37]
	m 4103 to 4199 are reserved for TS 29.15		[07]
4201 Network-Area-Info-		OctetString	
4202 Reference-Id		OctetString	
4203 Transfer-Request-1	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	29.154
4209 Number-Of-UEs		Unsigned32	[38]
4210 Access-Network-Re		Grouped	
4211 Event-Configuration		Grouped	
4212 Event-Configuration		Unsigned32	
4213 Event-Configuration		Grouped	
4214 Event-Reporting-Re	esults	Unsigned32	
4215 Event-Reports		Grouped	
4216 Extended-SCEF-Re		Unsigned64	
	m 4217 to 4299 are reserved for TS 29.15		
4300 Communication-Fa	ilure-information	Grouped	
4301 Cause-Type		Unsigned32	
4302 S1AP-Cause		Unsigned32	
4303 RANAP-Cause		Unsigned32	\rightarrow
4304 GMM-Cause 4305 SM-Cause		Unsigned32 Unsigned32	
4306 Number-of-UE-Per-	-Location-Configuration	Grouped	29.128
4307 Number-of-UE-Per-		Grouped	[36]
4308 UE-Count	Location-Report	Unsigned32	-
4309 BSSGP-Cause		Unsigned32	-
4310 Serving-PLMN-Rate	e-Control	Grouped	-
4311 Uplink-Rate-Limit	5 55.1001	Unsigned32	-
4312 Downlink-Rate-Lim	it	Unsigned32	-
.s.= = striming rate Lift		51101g110402	I

1212 Extended DCO	OctotCtring	T
4313 Extended-PCO	OctetString	
4314 Connection-Action	Unsigned32	
4315 Non-IP-Data	OctetString	
4316 SCEF-Wait-Time	Time	
4317 CMR-Flags	Unsigned32	
4318 RRC-Cause-Counter	Grouped	
4319 Counter-Value	Unsigned32	
4320 RRC-Counter-Timestamp	Time	
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.		
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	
4407 Unused-Quota-Timer	Unsigned32	32.299 [5]
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	1	
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	20, 202
4507 DUA-Flags	Unsigned32	29.283
4508 NDR-Flags	Unsigned32	[39]
4509 NDA-Flags	Unsigned32	
4510 User-Data-Id	Unsigned32	
4511 MC-Service-User-Profile-Data	Grouped	
4512 Sequence-Number	Unsigned32	
4513 MCVideo-ID	UTF8String	
4514 MC-Data-ID	UTF8String	
Note: The AVP codes from 4515 to 4599 are reserved for TS 29.283.	1 Offi oothing	L
4600 V2X-PC5-Allowed-PLMN	Grouped	
4601 V2X-Update-Flags	Unsigned32	29.388
4602 V2X-Notify-Flags	Unsigned32	[40]
4603 PLMN-Allowed-PC5-RATs	Grouped	
4604 PC5-RAT-Type	Enumerated	1
Note: The AVP codes from 4605 to 4799 are reserved for TS 29.388.		
4700 V2X-Authorization-Data	Grouped	29.389
4701 V2X-Permission-in-VPLMN	Unsigned32	[41]
4702 V2X-Application-Server	Grouped	[]
Note: The AVP codes from 4703 to 4799 are reserved for TS and TS	29.389.	1
		29.561
		[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 Experim	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.	
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]
Note: The Experim	ental Result Codes from 2022 to 2040 are reserved for the TS 29.061	
		29.109 [7]
Note: The Experim	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.	-
2421	DIAMETER_QOS_FLOW_DELETION_INDICATION	29.561 [42]
Note: The Experim	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		29.329 [4]	
		DIAMETER_PRIOR_UPDATE_IN_PROGRESS		
N		ntal Result Codes from 4102 to 4120 are reserved for the TS 29	9.329.	
		DIAMETER_ERROR_OUT_OF_RESOURCES		29.061 [13]
N		ntal Result Codes from 4122 to 4140 are reserved for the TS 29	9.061.	1
		DIAMETER_PCC_BEARER_EVENT		1
		DIAMETER_BEARER_EVENT		
	4143	DIAMETER_AN_GW_FAILED		29.212 [19]
	4144	DIAMETER_PENDING_TRANSACTION		
	4145	DIAMETER_UE_STATUS_SUSPEND		
N	lote: The Experime	ntal Result Codes from 4146 to 4160 are reserved for the TS 29	9.212	1
L				32.299 [5]
		ntal Result Codes from 4161 to 4180 are reserved for the TS 32	2.299.	
418		R_AUTHENTICATION_DATA_UNAVAILABLE		29.272 [21]
418		ER_ERROR_CAMEL_SUBSCRIPTION_PRESENT		
		t Codes from 4182 to 4200 are reserved for the TS 29.272.		20 (70 [05]
420		R_ERROR_ABSENT_USER		29.173 [25]
		t Codes from 4202 to 4220 are reserved for the TS 29.173.		
422		R_ERROR_UNREACHABLE_USER		
422		R_ERROR_SUSPENDED_USER		
422		R_ERROR_DETACHED_USER		29.172 [24]
422		R_ERROR_POSITIONING_DENIED		
422		R_ERROR_POSITIONING_FAILED		
422		ER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT		
		t Codes from 4227 to 4240 are reserved for the TS 29.172.		20 240 [26]
424		ER_ERROR_NO_AVAILABLE_POLICY_COUNTERS		29.219 [26]
426		t Codes from 4242 to 4260 are reserved for the TS 29.219.		20 214 [19]
.=0		TED_SERVICE_TEMPORARILY_NOT_AUTHORIZED		29.214 [18]
note. The f	Experimental Resul	t 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

Experimenta I Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5008	DIAMETER_ERROR_TOO_MUCH_DATA	[_]
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED	
5012	DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUP PORTED	
Note: The Expe	erimental Result Codes from 5013 to 5020 are reserved for the	
		32.299 [5]
	erimental Result Codes from 5021 to 5040 are reserved for the	TS 32.299.
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBS CRIPTION	29.234 [6]
5044 5045	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION DIAMETER_ERROR_UNSUITABLE_NETWORK	
	erimental Result Codes from 5046 to 5060 are reserved for the	ΓS 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	29.209 [8],
5064	DUPLICATED_AF_SESSION	29.211 [17] ,
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.214 [18]
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
	TEMPORARY_NETWORK_FAILURE rimental Result Codes from 5069 to 5080 are reserved for TS 2 TS 29.214.	29.209, TS 29.211
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5100	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	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	
Note: The Expe	rimental Result Codes from 5109 to 5119 are reserved for the	ΓS 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVI CE	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
	erimental Result Codes from 5124 to 5139 are reserved for the	IS 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_REJECT ED	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 Exp	erimental Result Codes from 5150 to 5159 are reserved for the	TS 29 212
5401	DIAMETER_ERROR_IMPI_UNKNOWN	10 29.212.
5402	DIAMETER_ERROR_NOT_AUTHORIZED	1
5402	DIAMETER ERROR TRANSACTION IDENTIFIER INVALI	29.109 [7
5405	D DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALI	
Note: The Expe	erimental Result Codes from 5404 to 5419 are reserved for the	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	
	erimental Result Codes from 5424 to 5449 are reserved for the	TS 20 272
5450	DIAMETER ERROR USER NO NON 3GPP SUBSCRIPT	10 20.272.
0400	ION	
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	-
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	29.273 [20]
5453	DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST	-
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST	-
	erimental Result Codes from 5455 to 5469 are reserved for the	TC 20 272
		15 29.273.
5470	DIAMETER_ERROR_SUBSESSION	20 245 [22]
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHM ENT	29.215 [22]
Note: The Exp	erimental Result Codes from 5472 to 5489 are reserved for the	TS 29.215
5490	DIAMETER ERROR UNAUTHORIZED REQUESTING NE	
0.00	TWORK	29.173 [25]
Note: The Exp	erimental Result Codes from 5491 to 5509 are reserved for the	TS 29 173
5510	DIAMETER ERROR UNAUTHORIZED REQUESTING EN	10 20.170.
3310	TITY	
5511	DIAMETER ERROR UNAUTHORIZED SERVICE	
5512	DIAMETER_ERROR_REQUESTED_RANGE_IS_NOT	
3312	ALLOWED	
5513	DIAMETER_ERROR_CONFIGURATION_EVENT_STORAG	29.336 [28]
3313	E_NOT_SUCCESSFUL	29.550 [20]
5514	DIAMETER_ERROR_CONFIGURATION_EVENT_NON_EXI	
5514	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	TC 20 226
	DIAMETER_ERROR_INVALID_SME_ADDRESS	13 29.330.
5530		
5531	DIAMETER_ERROR_SC_CONGESTION	
5532	DIAMETER_ERROR_SM_PROTOCOL	00 007 [00]
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	29.337 [29]
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5535	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDI	
	NG	
	erimental Result Codes from 5536 to 5549 are reserved for the	IS 29.337.
5550	DIAMETER_ERROR_ABSENT_USER	
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5553	DIAMETER_ERROR_ILLEGAL_USER	
5554	DIAMETER_ERROR_ILLEGAL_EQUIPMENT	29.338 [30]
5555	DIAMETER_ERROR_SM_DELIVERY_FAILURE]
5556	DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED	
5557	DIAMETER_ERROR_SERVICE_BARRED	
5558	DIAMETER_ERROR_MWD_LIST_FULL	
	erimental Result Codes from 5559 to 5569 are reserved for the	TS 29.338.
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	-
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	1
5592	DIAMETER_ERROR_PFID_UNKNOWN	
5593	DIAMETER_ERROR_APP_REGISTER_REJECT	
5594	DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLO WED	29.343 [32]
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	
5596	DIAMETER ERROR REQUESTING RPAUID UNKNOWN	1
5555	122.12.1	L

5597	DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_ SET	
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	
	erimental Result Codes from 5603 to 5609 are reserved for the	TS 29.343.
5610	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTIO	
	N – – – – – –	00 044 [00]
5611	DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]
5612	DIAMETER ERROR_UE_LOCATION_UNKNOWN	
Note: The Expe	erimental Result Codes from 5613 to 5629 are reserved for the	TS 29.344.
5630	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FIL	
	TER	
5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN	
	_PLMN	
5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE	
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	
5634	DIAMETER_ERROR_PROXIMITY_REJECTED	
5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	20 245 [24]
5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THI	29.345 [34]
	S_PLMN	
5637	DIAMETER_ERROR_PROXIMITY_CANCELLED	
5638	DIAMETER_ERROR_INVALID_TARGET_PDUID	
5639	DIAMETER_ERROR_INVALID_TARGET_RPAUID	
5640	DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_C	
	ODE	
5641	DIAMETER_ERROR_INVALID_DISCOVERY_TYPE	
	erimental Result Codes from 5642 to 5649 are reserved for the	TS 29.345.
5650	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SER	
	VED	
5651	DIAMETER_ERROR_INVALID_EPS_BEARER	
5652	DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAI LABLE	29.128 [36]
5653	DIAMETER_ERROR_USER_TEMPORARILY_UNREACHA BLE	
Note: The Expe	erimental Result Codes from 5654 to 5669 are reserved for the	TS 29.128.
5670	DIAMETER_ERROR_UNKNKOWN_DATA	
5671	DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	29.283 [39]
Note: The Expe	erimental Result Codes from 5672 to 5689 are reserved for the	TS 29.128.
5690	DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION	
5691	DIAMETER_ERROR_V2X_NOT_ALLOWED	29.388 [40]
Note: The Expe	erimental Result Codes from 5692 to 5709 are reserved for the	TS 29.388.

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		006		Inclusion of missing Cx AVPs	6.2.0
2004-12	CN#26	NP-040580		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		010	2	Documenting the Reuse of the 3GPP specific application identifier of Ro for	6.2.0
					Re on the Charging Interfaces	
2004-12	CN#26	NP-040579	011		Gq interface allocations	6.2.0
2004-12	CN#26	NP-040579	012		Addition of Gx interface	6.2.0
2005-03	CN#27	NP-050047	040	1	WLAN Diameter AVP and result codes	6.3.0
		NP-050039	043		Allocations for Gx interface	
		NP-050039	045		Allocations for Gmb interface	
		NP-050039	046		Allocations for MMS, MM10 Interface	
2005-06	CT#28	CP-050088	0050		Gx interface allocation correction	6.4.0
		CP-050196		1	Addition of Maximum-Number-Accesses AVP	
2005-09	CT#29	CP-050440	0052	1	Private identities on the Cx	6.5.0
		CP-050310			Addition of Pr reference point to TS 29.230	
		CP-050310			Error code cleanup	
		CP-050310	0056		Addition of Rx ref. point and renaming of Experimental Result Codes	
2005-09	CT#29		0055		Addition of GUSS timestamp AVP	7.0.0
2005-12	CT#30	CP-050624			Addition of GBA-Type AVP	7.1.0
		CP-050612			Additional Gmb AVP Allocation	
		CP-050612	0065		Reservation of AVP codes for 32.299	
		CP-050625	0066		Management of Sh subscriptions	
2006-03	CT#31	CP-060073			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		0077	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
					Addition of Diameter Error Code for Emergency Purposes	
		CP-060555			Allocation of new AVP codes for Gmb	
		CP-060555			AVP code allocations for Rf and Ro interfaces	
		CP-060566			Allocation of Success Result Code Range for Gi Interface	
2007-03	CT#35	CP-070020			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	0098		Experimental-Result-Codes for Gmb interface	
0007.00	OT#07	CP-070312			Correction of Diameter AVP code allocation	7.00
2007-09	CT#37	CP-070527			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	
2007-12	CT#38	CP-070755	0101	4	Gx protocol AVP assignments to support SIP Digest Authentication	8.0.0
2007-12	C1#30	CF-070755	0103	4	AVP code reservation for 32.299 in Rel-8	0.0.0
2008-03	CT#39	CP-080015	0103		Correction of reference to TS 29.140	8.1.0
2000-03	01#39	CP-080019			AVP code reservation for TS 32.299 in Rel-8	0.1.0
		CP-080019			Wildcarded Public User Identities	
		CP-080191	0112	1	Correction on AVP code allocation reservation for TS 32.299 in Rel-7	-
		CP-080204		1	Correction on AVP code allocation reservation for TS 32.299	_
0000 00	CT#40	CP-080204	0117	1	A new Diameter Permanent Failure Code for Gx	8.2.0
12008-06				-	Emergency Public User Identity Removal	8.3.0
2008-06	CT#41	I (P-()XIIZIS		1		⊣ 5.5.0
2008-09	CT#41 CT#41	CP-080456		1	LSupport of "Loose-Route" indication from HSS	
2008-09 2008-09	CT#41	CP-080460	0121	1	Support of "Loose-Route" indication from HSS STAMIP Application Id	-
2008-09 2008-09 2008-09	CT#41 CT#41	CP-080460 CP-080460	0121 0122	1	STaMIP Application Id	
2008-09 2008-09 2008-09 2008-09	CT#41 CT#41 CT#41	CP-080460 CP-080460 CP-080463	0121 0122 0123	1	STaMIP Application Id Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment)	830
2008-09 2008-09 2008-09 2008-09 2008-09	CT#41 CT#41 CT#41 CT#41	CP-080460 CP-080460 CP-080463 CP-080463	0121 0122 0123 0124	1 1 2	STaMIP Application Id Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment) New AVP Code Assignment for Forking Service Restoration	8.3.0
2008-09 2008-09 2008-09 2008-09	CT#41 CT#41 CT#41	CP-080460 CP-080460 CP-080463	0121 0122 0123	1 1 2 1	STaMIP Application Id Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment)	8.3.0 8.4.0 8.4.0

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		2	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		1	AVPs for TS 29.273	8.5.0
				4		
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
		J. 001002	0160		Session-Priority AVP	1
			0163	2	Introduction of SLh application related AVPs and Experimental Result codes	1
			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	1	Wildcarded Public Identity	9.2.0
2010-03	01#41	CP-100031		1	Correction on AVP code allocation reservation for TS 32.299 in Rel-9	9.2.0
		CP-100034 CP-100046			AVP code allocation for 29.172	+
		CP-100046		1	GPL_U support in TS 29.109	
		CP-100036	_		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			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	4
		CP-110087			Minimization of Drive Tests (MDT)	4
		CP-110088			Relay Node Indicator AVPs	
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			MIPv4 security parameters on the STa and S6b interfaces	
		CP-110380	0216		MDT user consent	
		CP-110370			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	
		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
	1 30	CP-110579		-	AVP code alignment with 32.299	1
		CP-110579			AVP code alignment with 32.299 AVP code reservation for 29.212	+
2011-12	CT#54	CP-110555		1	SWx Restoration AVPs	11.1.0
ZU11-1Z	C1#34			1		11.1.0
ı		CP-110812 CP-110775			Sy and Sd Application IDs	4
		TOP-110/75	0202	L	New AVP codes for MBMS IP unicast encapsulation	_
			0005		Now AVD and a for MDMC ID multipact an annultipact	
		CP-110775 CP-110786		4	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			Corrections to reference titles	
		CP-120251			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	
		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	0315	2	T4 device triggering via IMS	11.5.0
		CP-120731			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			Application Identifier, Command Codes and AVP codes for SGd, S6c	
		CP-120716			AVP name modification in TS 32.299	
		CP-120742			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
	07//00	CP-130030		-	Validity Time of Short Message	10.1.0
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 CP-130380			Definition of SS Status for Call Barring	
		CP-130360 CP-130291	0348		New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over	
		CF-130291	0346	2	Lgd interface	
		CP-130297	0347	1	Application Port Identifier	
		CP-130374			MTRR on Sh	
		CP-130295			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		1		-	Vendor-specific command code for Trigger-Establishment-Request/Answer	12.2.1
					corrected	
2013-12	CT#62	CP-130624	0369	-	New AVP for optimized LCS procedure for combined MME/SGSN	12.3.0
			0370	1	Adding E-SMLC provided Cell info and Cell Portion	
		CP-130800			New AVPs for SMS for IMS UE without MSISDN in TS 29.338	
		CP-130600		1	Allocation of Diameter codes for 32.299	
		CP-130605		-	Allocation of Diameter codes for 29.212	
				-	SGSN CAMEL Subscription Indication	
2014-03	CT#63	CP-140180			Protocol enhancements for the support of device replace procedure	12.4.0
		CP-140035			New AVP for the support of combined MME/SGSN	
	1	CP-140023			Definition of WLAN-related AVPs	
2014-06	CT#64	CP-140211	0385	_	Protocol enhancements to indicate support of device recall and replace by	12.5.0
					SMS-SC	
		CP-140251	0402	1	AVP allocation for Error handling, MTC error diagnostic	
		CP-140257	0391	1	SS-Status AVP Definition	
		CP-140252	0392	Ŀ	Definition of AVPs for Network Location in TWLAN	
		CP-140236		Ŀ	TWAN-BSSID AVP re-naming	
	1	CP-140247		-	New AVPs for Trusted WLAN access	
				1	Adding Codes for 29.214	
		CP-140231	0390			
2014-09	CT#65	CP-140231 CP-140515		1	T-GRUU restoration	12.6.0
2014-09	CT#65		0403		T-GRUU restoration MB2-C codes	12.6.0
2014-09	CT#65	CP-140515	0403 0404	1	MB2-C codes	12.6.0
2014-09	CT#65	CP-140515 CP-140517	0403 0404 0405	1		12.6.0

		CP-140513	0408	-	Identification of the HSS	
2014 12	CT#66	CD 140795	0400	1	Editorial: WLAN-offloadability AVP codes added as in CR C4-141648.	12.7.0
2014-12	CT#66	CP-140785	0409 0430		New AVP for MBMS restoration New Diagnostic-Info AVP for MBMS restoration	12.7.0
			0410		WLCP key for WLCP signalling protection	
			0411		Reset-ID	
			0416	1	Code definitions for 32.299	
			0428	-	Removal of I-WLAN AVPs	
			0429	1	Reference correction	
			0433	-	Code allocation for 29.212	
			0418		MDT PLMN List	
			0422		Codes Allocation for PC2 Protocol	
			0423		Codes Allocation for PC4a Protoco	
			0431	3	Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345	
			0434	1	Command Code and Error Code for ProSe Initial Location Information	
					Retrieval	
	ļ.		0425		Corrections of the type of some AVPs	
			0426		OFR-Flags AVP code	
045.00	OT#07	CD 450045	0427		P-CSCF Restoration mechanism new error	40.0.0
2015-03	CT#67	CP-150015	0447 0437	-	Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	12.8.0
			0437		AVP codes for GCSE MB2-C	
			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)	
			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	
015-03	CT#67	CP-150039			Diameter Application Identifier for Np protocol	13.0.0
015-06	CT#68	CP-150257		1	AVP code allocation for Match Refresh Timer AVP in TS 29.345	13.1.0
		CP-150247		-	Wrong CR implementation of CR 0416r1	
		CP-150249			AVP code allocation for 32.299 AVP codes for Access Restriction Data per PLMN	
		CP-150263 CP-150372		-	IP-SM-GW-Realm	
015-09	CT#69	CP-150454		_	Subscription data for extended buffering at the SGW	13.2.0
.010 00	01//00	CP-150442		-	Overlapping transaction over S6b	10.2.0
		CP-150453		2	Addition of IMSI Group Id AVP definition	
		CP-150449	0465	3	Addition of CP parameter AVP definition	
		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	13.3.0
		CP-150778			S6t Application ID and Command Codes	
	ŀ	CP-150778 CP-150778			Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface	
		CP-150778			Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data	
		01 -130770	0431	'	types	
		CP-150778	0494	2	Definition of AVP for deletion of all Monitoring events assigned to a	
					subscriber (UE)	
	[CP-150778			Definition of AVP SCEF-ID	
		CP-150778			Service result per Event configuration	
		CP-150770			Emergency PDN connection over untrusted WLAN access	
		CP-150776	04/6	-	EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving	
		CP-150776	0497	1	Mobile Terminating SMS handling for extended Idle mode DRX	
			0498		Mobile Terminating SMS handling for extended Idle mode DRX – Additional	
			3 .50	l .	Option	
		CP-150777	0477	3	Commands and codes for Np protocol	
		CP-150772			Definition of ProSe-Metadata-Index-Mask	
	[CP-150772	0489	-	Addition of AVPs and result-codes	
		CP-150772			Addition of AVP used in match report procedure for eProSe-Ext-CT	
		CP-150754			Allowed WAF and/or WWSF Identities	
		CP-150773			Add the default access type to 3GPP specific AVP	
	}	CP-150781		T	AVP code allocation for "UE Usage Type"	
	}	CP-150755		-	Metadata in Match-Report New Group AVP for ProSe direct discovery procedures	
	}	CP-150755 CP-150771		1	Definition of AVP for AESE-CT	
		CP-150771			Command codes and AVP range for TS 29.154 and TS 29.153	
		CP-150776			AVP codes for Indoor Positioning support in SLg/Lgd	
2016-03	CT#71	CP-160041			Application ID for St	13.4.0
		CP-160041			Correction on TS numbers	1
		CP-160041		-	AVPs for the Rx Diameter application	
	I .					
		CP-160041 CP-160041			AVP code reservation for 32.299 Codes for 29.212	

1	ı	LCD 400000	٥٥٥٥	10	Now AVD and represent for MONTE	- 1
		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	-
		CP-160033			Definition of AVP Authorization of NIDD	1
		CP-160033			New PDN-Type for Cellular IoT	
		CP-160036			Monitoring update and Reporting of update result	
		CP-160036	0519	3	Allocation of new Diameter Application ID and commands code for PC2 protocol	
2016-03	CT#71	CP-160018	0515	1	AVP code reservation for 32.299	14.0.0
2016-06	CT#72	CP-160236		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	CT#72	CP-160232			AVP Codes for 29.343	14.1.0
2016-06	CT#72	CP-160232		3	Addition of new AVPs for ProSe direct discovery security and open ProSe direct discovery with application-controlled extension	14.1.0
2016-06	CT#72	CP-160232		-	Reserved Experimental Result Codes for TS 29.343	14.1.0
2016-06	CT#72	CP-160232		-	Assignment of application ID and command code for PC2 reference point	14.1.0
2016-06	CT#72	CP-160228		-	IANA Command Code Registration	14.1.0
2016-06 2016-06	CT#72 CT#72	CP-160228 CP-160228		1	CloT new commands and Diameter error 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			SCEF Realm	14.1.0
2016-06	CT#72	CP-160225	0548	-	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	CP-160222	0555	1	Shared Subscription data update	14.1.0
2016-09	CT#73	CP-160424		1	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	CT#73	CP-160419		1	AVP code for 29.214	14.2.0
2016-09 2016-09	CT#73 CT#73	CP-160419 CP-160436		1	AVP code for 29.212 STa and SWm extensions for IMEI check	14.2.0 14.2.0
2016-09	CT#73	CP-160436		<u> </u>	AVP code alignment with 29.272	14.2.0
2016-12	CT#74		0579	1	AVPs for Handover of Emergency PDN Connections	14.3.0
2016-12	CT#74	CP-160678			New Diameter Application Code, AVP and Result Code for V2X	14.3.0
2016-12	CT#74	CP-160653			Renaming of Emergency-Indication AVP	14.3.0
2016-12	CT#74	CP-160670	0586	2	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			Enhanced Coverage	14.4.0
2017-03 2017-03	CT#75 CT#75	CP-170039 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	CT#75	CP-170045			Support of MCVideo and MCData Services	14.4.0
2017-06 2017-06	CT#76 CT#76	CP-171029 CP-171017		4	New AVP for Group Based MONTE Event Configuration via HSS New AVPs in 29.272 for MBSFN MDT	14.5.0 14.5.0
2017-06	CT#76	CP-171017		<u>-</u>	AVP codes for 29.212	14.5.0
2017-06	CT#76	CP-171026		<u> </u> -	AVP codes for 29.212 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			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	15.0.0
2017-12	CT#78		0625	1	AVP codes for TS 29.219, TS 29.212 and TS 29.214	15.1.0
2017-12	CT#78	CP-173033	0019	l I	Suggested Network Configuration Request	15.1.0

2017-12	CT#78	CP-173028	0620	-	Monitoring Event Report Status	15.1.0
2017-12	CT#78	CP-173028	0626		AVP code for PLMN-ID-Requested in S6t	15.1.0
2017-12	CT#78	CP-173032		_	New AVP for PC5-tech for WLAN based ProSe Direct Discovery	15.1.0
2018-03	CT#79	CP-180021	0628	_	Service Gap Time AVP	15.2.0
2018-03	CT#79	CP-180020	0629		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		1	Supported-Services and Supported-Monitoring-Events	15.3.0
2018-06	CT#80	CP-181120		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		1	AVP codes for TS 29.154	15.3.0
2018-06	CT#80	CP-181120			New AVP for subscription for Aerial UE in 3GPP system	15.3.0
2018-06	CT#80	CP-181120		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			Monitoring event report	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		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		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		Event type PDN Connectivity Status	16.0.0
2019-09	CT#85	CP-192122			Ethernet PDN Type AVP	16.0.0
2019-09	CT#85	CP-192121			Communication pattern enhancement	16.0.0
2019-12	CT#86	CP-193035		1	UE Status Suspend	16.1.0
2019-12	CT#86	CP-103038		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		New AVP defiened in TS 29.214 for Callee-Information	16.1.0
2019-12	CT#86	CP-193040		-	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		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		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			Authorized PLMNs and RATs for V2X	16.3.0
2020-06	CT#88e	CP-201049	0682	<u> - </u>	Subscribed PC5 QoS Parameters for NR V2X	16.3.0

History

Document history					
V16.3.0	November 2020	Publication			