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

> Diameter applications; 3GPP specific codes and identifiers (3GPP TS 29.230 version 14.6.0 Release 14)



# Reference RTS/TSGC-0429230ve60 Keywords GSM,LTE,UMTS

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## 1 Scope

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

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

#### 2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
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Diameter protocol; Stage 3".

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

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

[17]	3GPP TS 29.211, Release 6: "Rx Interface and Rx/Gx signalling flows".
[18]	3GPP TS 29.214: "Policy and Charging Control over Rx reference point".
[19]	3GPP TS 29.212: "Policy and Charging Control (PCC);Reference points".
[20]	3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces".
[21]	3GPP TS 29.272: "Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol".
[22]	3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point; Stage 3".
[23]	IETF RFC 5516: "Diameter Command Code Registration for Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)".
[24]	3GPP TS 29.172: "Location Services (LCS); Evolved Packet Core (EPC) LCS Protocol (ELP) between the Gateway Mobile Location Centre (GMLC) and the Mobile Management Entity (MME); SLg interface".
[25]	3GPP TS 29.173: "Location Services (LCS); Diameter-based SLh interface for Control Plane LCS".
[26]	3GPP TS 29.219: "Policy and Charging Control: Spending Limit Reporting over Sy reference point".
[27]	3GPP TS 29.368: "Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS)".
[28]	3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications".
[29]	3GPP TS 29.337: "Diameter-based T4 interface for communications with packet data networks and applications".
[30]	3GPP TS 29.338: "Diameter based protocols to support SMS capable MMEs".
[31]	3GPP TS 29.468: "Group Communication System Enablers for LTE (GCSE_LTE)".
[32]	3GPP TS 29.343: "Proximity-services (ProSe) function to ProSe application server aspects (PC2)".
[33]	3GPP TS 29.344: "Proximity-services (ProSe) Function to Home Subscriber Server (HSS) aspects".
[34]	3GPP TS 29.345: "Inter-Proximity-services (Prose) function signalling aspects; Stage 3".
[35]	3GPP TS 29.217: "Policy and Charging Control over Np reference point".
[36]	3GPP TS 29.128: "Diameter based T6a/T6b interface between the MME/SGSN and the SCEF".
[37]	3GPP TS 29.153: "Service exposure functionality between SCEF and RCAF reference point".
[38]	3GPP TS 29.154: "Service capability exposure functionality over Nt Reference point".
[39]	3GPP TS 29.283: "Diameter Data Management applications".
[40]	3GPP TS 29.388: "V2X Control Function to V2X Control Function to Home Subscriber Server (HSS) aspects (V4)".
[41]	3GPP TS 29.389: "Inter-V2X Control Function Signalling aspects (V6)".

#### 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

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   29.001 [15]   16777224   3GPP Gmb   29.010 [15]   16777225   3GPP Gmb   29.010 [15]   16777226   3GPP Gmb   29.210 [15]   16777226   3GPP Gmb   29.210 [15]   16777226   3GPP Gx   29.210 [15]   16777226   3GPP Gx   29.211 [17]   16777229   3GPP Rx   29.211 [17]   16777230   3GPP Rx   29.211 [17]   16777236   3GPP Rx   29.212 [19]   16777236   3GPP STa   29.272 [21]   16777250   3GPP STa   29.273 [20]   16777251   3GPP SGa   29.272 [21]   16777252   3GPP SIa   29.272 [21]   16777255   3GPP SUB   29.172 [24]   16777264   3GPP SWR   29.273 [20]   16777266   3GPP SWR   29.273 [20]   16777267   3GPP SGB   29.215 [22]   16777268   3GPP SUB   29.175 [22]   16777267   3GPP SGB   29.215 [22]   16777291   3GPP SGB   29.215 [22]   16777291   3GPP SGB   29.215 [22]   16777291   3GPP SGB   29.273 [20]   16777291   3GPP SGB   29.272 [21]   16777302   3GPP SGB   29.272 [21]   16777303   3GPP SGB   29.215 [22]   16777304   3GPP SGB   29.215 [22]   16777305   3GPP SGB   29.215 [22]   16777306   3GPP SGB   29.216 [23]   16777311   3GPP SGB   29.216 [23]   16777312   3GPP SGB   29.216 [23]   16777313   3GPP SGB   29.215 [22]   16777314   3GPP SGB   29.215 [22]   16777315   3GPP SGB   29.215 [22]   16777316   3GPP SGB   29.215 [22]   16777316   3GPP SGB   29.215 [22]   16777317   3GPP SGB   29.215 [22]   16777318   3GPP SGB   29.236 [27]   16777318   3GPP SGB   29.236 [28]   16777314   3GPP SGB   29.235 [22]   16777346   3GPP SGB   29.236 [28]   16777347   3GPP NB   29.215 [22]   16777347   3GPP NB   29.215 [22]   16777347   3	Application identifier	Application	3GPP TS
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 Zh   29.109 [7]   16777221   3GPP Zh   29.109 [7]   16777222   3GPP Zh   29.109 [7]   16777223   3GPP Gm   29.209 [8]   16777223   3GPP Gm   29.201 [15]   16777225   3GPP Gx   29.210 [15]   16777226   3GPP Gx   29.210 [15]   16777226   3GPP MM10   29.140 [16]   16777229   3GPP Rx   29.211 [17]   16777226   3GPP MM10   29.140 [16]   16777230   3GPP Rx   29.211 [17]   16777230   3GPP Rx   29.214 [18]   16777238   3GPP Gx   29.212 [19]   16777250   3GPP Sta   29.273 [20]   16777251   3GPP S6a   29.273 [20]   16777252   3GPP S6a   29.272 [21]   16777255   3GPP S6a   29.272 [21]   16777264   3GPP SWm   29.273 [20]   16777265   3GPP SWm   29.273 [20]   16777266   3GPP SWm   29.273 [20]   16777266   3GPP SWm   29.273 [20]   16777266   3GPP SWm   29.273 [20]   16777268   3GPP SWm   29.273 [20]   16777268   3GPP SWm   29.273 [20]   16777269   3GPP S6b   29.215 [22]   16777291   3GPP S6b   29.215 [22]   16777292   3GPP S6b   29.215 [22]   16777291   3GPP S6b   29.215 [22]   16777303   3GPP S9   29.215 [22]   16777303   3GPP SP S6b   29.273 [20]   16777311   3GPP S6b   29.272 [21]   16777303   3GPP SMP   29.215 [22]   16777304   3GPP SMP   29.215 [22]   16777305   3GPP SMP   29.215 [22]   16777307   3GPP S6b   29.212 [19]   16777311   3GPP S6b   29.212 [19]   16777312   3GPP S6b   29.212 [19]   16777314   3GPP S6b   29.215 [22]   16777316   3GPP S6b   29.215 [22]   16777316   3GPP S6b   29.215 [22]   16777346   3GPP S6b   29.338 [30]   16777314   3GPP S6b   29.338 [30]   16777314   3GPP S6b   29.338 [30]   16777314   3GPP S6b   29.338 [30]   16777346   3GPP S6b   29.338 [30]   16777349   3GPP S6b   29.338 [40]   16777349   3GPP S6b   29.3	16777216	3GPP Cx/Px	29.228 [1] and 29.229 [2]
16777218   3GPP Re   32.296 [14]   16777219   3GPP Wx   29.234 [6]   16777220   3GPP Zn   29.109 [7]   16777221   3GPP Zn   29.109 [7]   16777221   3GPP Gq   29.209 [8]   16777223   3GPP Gq   29.209 [8]   16777224   3GPP Gmb   29.061 [13]   16777224   3GPP Gmb   29.210 [15]   16777225   3GPP Gmb   29.210 [15]   16777226   3GPP MM10   29.140 [16]   16777229   3GPP MM10   29.140 [16]   16777229   3GPP Rx   29.211 [17]   16777236   3GPP Rx   29.214 [18]   16777236   3GPP Rx   29.214 [18]   16777236   3GPP STa   29.234 [6]   16777238   3GPP STa   29.273 [20]   16777251   3GPP SGB   29.272 [21]   16777252   3GPP SIa   29.272 [21]   16777255   3GPP SIa   29.272 [21]   16777264   3GPP SWm   29.273 [20]   16777266   3GPP SWm   29.273 [20]   16777266   3GPP SWm   29.273 [20]   16777267   3GPP SW   29.273 [20]   16777268   3GPP SW   29.273 [20]   16777269   3GPP SB   29.215 [22]   16777291   3GPP SGB   29.215 [22]   16777302   3GPP SGB   29.215 [22]   16777303   3GPP SB   29.216 [13]   16777304   3GPP SGM   29.273 [20]   16777306   3GPP SM   29.273 [20]   16777307   3GPP SGM   29.212 [19]   16777308   3GPP SG   29.212 [19]   16777311   3GPP SG   29.212 [19]   16777314   3GPP SG   29.338 [30]   16777316   3GPP SG   29.338 [30]   16777346   3GPP DG   29.345 [34]   16777349   3GPP DG   29.345 [34]   16777346   3GPP DG   29.345 [34]   1	16777217	3GPP Sh/Ph	
16777219   3GPP Wx   29.234   6	16777218	3GPP Re	
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 Gmb   29.061   13   16777224   3GPP Gx   29.210   15   16777226   3GPP MM10   29.140   16   16777226   3GPP MM10   29.140   16   16777226   3GPP MM10   29.140   16   16777230   3GPP Rx   29.211   17   16777230   3GPP Rx   29.211   17   16777236   3GPP Gx   29.224   6   16777236   3GPP Gx   29.224   18   16777236   3GPP Gx   29.212   19   16777250   3GPP STa   29.273   20   16777251   3GPP STa   29.273   20   16777251   3GPP SGB   29.272   21   16777255   3GPP SI3/S13   29.272   21   16777264   3GPP SWm   29.273   20   16777264   3GPP SWm   29.273   20   16777266   3GPP SWx   29.273   20   16777266   3GPP SWx   29.273   20   16777266   3GPP SWx   29.273   20   16777267   3GPP SB   29.212   19   16777267   3GPP SB   29.212   19   16777267   3GPP SB   29.212   19   16777269   3GPP SB   29.212   20   1677720   3GPP SB   29.273   20   1677720   3GPP SB   29.215   22   1677720   3GPP SB   29.273   20   1677720   3GPP SB   29.273   20   1677720   3GPP SB   29.273   20   1677730   3GPP SGB   29.273   20   1677731   3GPP SGB   29.272   21   1677730   3GPP SGB   29.273   20   1677731   3GPP SGB   29.273   20   1677731   3GPP SGB   29.336   20   12   19   1677731   3GPP SGB   29.336   20   12   19   1677731   3GPP SGB   29.336   20   12   19   1677734   3GPP SGB   29.345   32   1677734   3GPP SGB   29.345   33   1677734   3GPP SGB   29.345   34   1677734			
16777221   3GPP Zh   29.109   7			
16777222   3GPP Gq   29.209   8   16777223   3GPP Gmb   29.061   13   16777224   3GPP Gx   29.210   15   16777226   3GPP Gx over Gy   29.210   15   16777226   3GPP MM10   29.140   16   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   3GPP S6a   29.272   21   16777255   3GPP S13   3GPP SLg   29.172   24   16777264   3GPP SWm   29.273   20   16777264   3GPP SWm   29.273   20   16777266   3GPP SWm   29.273   20   16777266   3GPP SWx   29.212   19   16777267   3GPP S9   29.215   29   16777268   3GPP SP SP   29.215   29   16777291   3GPP SD   29.215   22   16777291   3GPP SD   29.215   22   16777291   3GPP SGmb   29.273   20   16777302   3GPP SGmb   29.273   20   16777303   3GPP SD   29.215   29   16777303   3GPP SD   29.215   29   16777304   3GPP SD   29.219   26   16777310   3GPP SG   29.272   21   16777312   3GPP SG   29.272   21   16777313   3GPP SG   29.272   21   16777314   3GPP SG   29.338   30   16777315   3GPP SG   29.338   30   16777315   3GPP SG   29.346   31   16777316   3GPP SG   29.338   30   16777317   3GPP SG   29.346   31   16777317   3GPP SG   29.346   31   16777317   3GPP SG   29.346   31   16777314   3GPP SG   29.346   31   16777315   3GPP SG   29.346   31   16777316   3GPP SG   29.346   31   16777317   3GPP SG   29.346   31   16777317   3GPP SG   29.346   31   16777317   3GPP SG   29.346   31   16777314   3GPP SG   29.346   31   16777346   3GPP SG   29.346   31   16777346   3GPP SG   29.345   34   16777346   3GPP SG   29.343   32   16777346   3GPP SG   29.343   32   16777346   3GPP SG   29.343   32   1			
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 Rx   29.211 [17]   16777236   3GPP Rx   29.214 [18]   16777236   3GPP Rx   29.214 [18]   16777236   3GPP Rx   29.214 [18]   16777238   3GPP Gx   29.212 [19]   16777250   3GPP STa   29.273 [20]   16777251   3GPP STa   29.272 [21]   16777252   3GPP S13/S13'   29.272 [21]   16777255   3GPP SLg   29.172 [24]   16777264   3GPP SWm   29.273 [20]   16777266   3GPP SWm   29.273 [20]   16777266   3GPP Gxx   29.212 [19]   16777267   3GPP Gxx   29.212 [19]   16777268   3GPP Gxx   29.212 [19]   16777272   3GPP S6b   29.215 [22]   16777291   3GPP S6b   29.273 [20]   16777291   3GPP SGM   29.109 [7]   16777292   3GPP SGM   29.109 [7]   16777302   3GPP SGM   29.219 [26]   16777303   3GPP SJ   29.219 [26]   16777304   3GPP SJ   29.219 [26]   16777305   3GPP SJ   29.272 [21]   16777307   3GPP SJ   29.272 [21]   16777308   3GPP SJ   29.272 [21]   16777310   3GPP SJ   29.388 [27]   16777311   3GPP SGM   29.388 [27]   16777312   3GPP SGM   29.388 [27]   16777313   3GPP SGC   29.338 [30]   16777316   3GPP SGC   29.338 [30]   16777317   3GPP SGC   29.338 [30]   16777318   3GPP SGC   29.338 [30]   16777316   3GPP SGC   29.338 [30]   16777317   3GPP SGC   29.338 [30]   16777316   3GPP SGC   29.343 [32]   16777346   3GPP SGC   29.343 [32]   16777346   3GPP SGC   29.343 [32]   16777346   3GPP SGC   29.343 [32]   16777347   3GPP SGC   29.345 [34]   16777346   3GPP SGC   29.345 [34]   16777347   3GPP SGC   29.345 [34]   16777347   3GPP SGC   29.345 [34]   16777346   3GPP SGC   29.343 [32]   16777347   3GPP SGC   29.343 [32]   16777346   3GPP SGC   29.343 [32]   16777347   3GPP SGC   29.343 [32]   16777346   3GPP SGC   29.343 [			
16777224   3GPP Gx   29.210   15     16777225   3GPP Gx over Gy   29.210   15     16777226   3GPP MM10   29.140   16     16777230   3GPP Rx   29.211   17     16777230   3GPP Pr   29.234   6     16777236   3GPP Rx   29.214   18     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 SUg   29.172   24     16777266   3GPP SWm   29.273   20     16777266   3GPP SWm   29.273   20     16777266   3GPP SP S9   29.215   22     16777266   3GPP SP S9   29.215   22     16777272   3GPP S6b   29.273   20     16777291   3GPP SP S0   29.215   22     16777302   3GPP SGM   29.2173   20     16777303   3GPP Sy   29.216   21     16777304   3GPP SP S0   29.217   25     16777307   3GPP SD   29.217   26     16777308   3GPP S7   29.212   19     16777310   3GPP SD   29.212   19     16777311   3GPP SD   29.386   27     16777312   3GPP SGM   29.272   21     16777313   3GPP SG   29.272   21     16777314   3GPP SD   29.386   27     16777315   3GPP SG   29.338   30     16777316   3GPP SG   29.338   30     16777317   3GPP SD   29.344   33     16777318   3GPP SD   29.215   22     16777346   3GPP SD   29.215   22     16777347   3GPP SD   29.346   31     16777348   3GPP SD   29.215   22     16777346   3GPP SD   29.346   31     16777347   3GPP SD   29.346   34     16777348   3GPP SD   29.215   22     16777346   3GPP SD   29.215   22     16777347   3GPP SD   29.215   22     16777348   3GPP NB   29.215   30     16777347   3GPP NB   29.215   30     16777348   3GPP SD   29.215   30     16777349   3GPP SD   29.215   30     16777340   3GPP SD   29.346   34     16777341   3GPP Diameter Data     16777350   3GPP NB   29.215   39     16777351   3GPP Diameter Data     16777355   3GPP V4   29.388   40			
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 SLg         29.172 [24]           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]           16777291         3GPP S6b         29.273 [20]           16777292         3GPP S6mb         29.217 [20]           16777302         3GPP S9         29.219 [26]           16777308         3GPP S7a         29.219 [26]           16777310         3GPP S6m         29.336 [28]           16777311			
16777226   3GPP MM10   29.140 [16]     16777229   3GPP Rx   29.211 [17]     16777230   3GPP Rx   29.211 [17]     16777236   3GPP Rx   29.214 [18]     16777238   3GPP Rx   29.214 [18]     16777238   3GPP Gx   29.212 [19]     16777251   3GPP S6a   29.272 [21]     16777252   3GPP S13/S13'   29.272 [21]     16777255   3GPP SUG   29.172 [24]     16777264   3GPP SUG   29.273 [20]     16777265   3GPP SWW   29.273 [20]     16777266   3GPP SWX   29.273 [20]     16777267   3GPP SW   29.212 [19]     16777268   3GPP SD   29.109 [7]     16777272   3GPP S6b   29.215 [22]     16777291   3GPP SCD   29.109 [7]     16777302   3GPP SUG   29.19 [26]     16777308   3GPP SY   29.219 [26]     16777309   3GPP S7a   29.219 [26]     16777311   3GPP S6b   29.272 [21]     16777312   3GPP S6b   29.272 [21]     16777313   3GPP SGD   29.388 [27]     16777314   3GPP SGD   29.388 [28]     16777315   3GPP SGD   29.388 [28]     16777316   3GPP SGD   29.388 [28]     16777317   3GPP SGD   29.388 [28]     16777318   3GPP SGD   29.388 [28]     16777319   3GPP SGD   29.315 [22]     16777340   3GPP SGD   29.344 [33]     16777340   3GPP SGB   29.215 [22]     16777346   3GPP SGB   29.215 [22]     16777347   3GPP SGB   29.215 [22]     16777348   3GPP PC2   29.343 [32]     16777346   3GPP SGB   29.215 [22]     16777347   3GPP SGB   29.215 [22]     16777348   3GPP SGB   29.215 [22]     16777346   3GPP SGB   29.215 [22]     16777347   3GPP SGB   29.215 [22]     16777348   3GPP SGB   29.215 [22]     16777347   3GPP SGB   29.215 [22]     16777348   3GPP PC2   29.343 [32]     16777347   3GPP SGB   29.215 [22]     16777348   3GPP SGB   29.215 [22]     16777347   3GPP SGB   29.215 [22]     16777348   3GPP SGB   29.215 [22]     16777347   3GPP SGB   29.215 [22]     16777348   3GPP SGB   29.215 [22]     16777355   3GPP SGB   29.212 [19]     16777355   3GPP SGB   29.233 [39]     16777355   3GPP SGB   29.233 [39]     16777355   3GPP SGB   29.233 [39]     16777355   3GPP SGB   29.238 [40]			
16777229   3GPP Rx   29.211 [17]     16777230   3GPP Pr   29.234 [6]     16777236   3GPP Rx   29.214 [18]     16777236   3GPP Rx   29.212 [19]     16777250   3GPP STa   29.273 [20]     16777250   3GPP STa   29.272 [21]     16777251   3GPP S6a   29.272 [21]     16777252   3GPP S13/S13'   29.272 [21]     16777255   3GPP SUg   29.172 [24]     16777264   3GPP SWm   29.273 [20]     16777265   3GPP SW   29.273 [20]     16777266   3GPP SW   29.273 [20]     16777267   3GPP S9   29.215 [22]     16777268   3GPP S9   29.215 [22]     16777288   3GPP Zon   29.109 [7]     16777291   3GPP S6b   29.273 [20]     16777292   3GPP SGmb   29.173 [25]     16777302   3GPP SCM   29.112 [19]     16777303   3GPP Sd   29.212 [19]     16777304   3GPP S7a   29.212 [19]     16777310   3GPP S6m   29.386 [27]     16777311   3GPP S6m   29.386 [27]     16777312   3GPP S6c   29.338 [30]     16777313   3GPP S6c   29.338 [30]     16777314   3GPP S6c   29.338 [30]     16777315   3GPP S6c   29.338 [30]     16777316   3GPP S9a   29.215 [22]     16777317   3GPP S6c   29.338 [30]     16777318   3GPP S6c   29.338 [30]     16777319   3GPP S6c   29.338 [30]     16777316   3GPP S9a   29.215 [22]     16777320   3GPP S9a   29.215 [22]     16777336   3GPP S9a   29.215 [22]     16777340   3GPP S6c   29.338 [30]     16777317   3GPP S6c   29.338 [30]     16777318   3GPP S9a   29.215 [22]     16777340   3GPP S9a   29.215 [22]     16777340   3GPP S9a   29.215 [22]     16777341   3GPP S6c   29.338 [30]     16777342   3GPP S6c   29.344 [33]     16777343   3GPP S6c   29.345 [34]     16777344   3GPP S6c   29.345 [34]     16777345   3GPP S6c   29.345 [34]     16777346   3GPP S6c   29.345 [34]     16777347   3GPP S6c   29.345 [34]     16777349   3GPP S6c   29.345 [34]     16777350   3GPP D6a   29.215 [22]     16777351   3GPP D6a   29.221 [19]     16777355   3GPP D6a   29.238 [40]		·	
16777230   3GPP Pr   29.234 [6]     16777236   3GPP Rx   29.214 [18]     16777238   3GPP Rx   29.214 [18]     16777250   3GPP STa   29.273 [20]     16777251   3GPP S6a   29.272 [21]     16777252   3GPP S6a   29.272 [21]     16777255   3GPP SLg   29.772 [24]     16777264   3GPP SWm   29.273 [20]     16777265   3GPP SWm   29.273 [20]     16777266   3GPP SWx   29.273 [20]     16777267   3GPP S9   29.215 [22]     16777268   3GPP SP SP   29.215 [22]     16777269   3GPP SP SP   29.215 [22]     16777260   3GPP SP   29.215 [22]     16777261   3GPP SP   29.215 [22]     16777262   3GPP SP   29.215 [22]     16777291   3GPP SGh   29.173 [25]     16777302   3GPP SGh   29.173 [25]     16777303   3GPP SP   29.219 [26]     16777304   3GPP SP   29.219 [26]     16777310   3GPP SF   29.368 [27]     16777311   3GPP SF   29.368 [27]     16777312   3GPP SGC   29.338 [30]     16777313   3GPP SG   29.239 [29]     16777314   3GPP SG   29.338 [30]     16777315   3GPP SP   29.368 [27]     16777316   3GPP SP   29.368 [27]     16777317   3GPP SG   29.338 [30]     16777318   3GPP SG   29.338 [30]     16777319   3GPP SP   29.348 [31]     16777336   3GPP SP   29.215 [22]     16777337   3GPP SP   29.215 [22]     16777340   3GPP SP   29.348 [31]     16777341   3GPP PC4   29.334 [32]     16777340   3GPP SP   29.215 [22]     16777341   3GPP SP   29.215 [22]     16777340   3GPP SP   29.215 [22]     16777340   3GPP SP   29.215 [22]     16777341   3GPP SG   29.215 [22]     16777342   3GPP SP   29.215 [22]     16777343   3GPP SP   29.215 [22]     16777346   3GPP SP   29.215 [22]     16777347   3GPP NS   29.153 [37]     16777348   3GPP NB   29.217 [35]     16777349   3GPP NS   29.153 [37]     16777349   3GPP NS   29.218 [39]     16777355   3GPP Diameter Data   Management   29.288 [40]			
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 SUg         29.172 [24]           16777264         3GPP SWm         29.273 [20]           16777265         3GPP SWx         29.273 [20]           16777266         3GPP SWx         29.212 [19]           16777267         3GPP S9         29.215 [22]           16777268         3GPP Sp         29.215 [22]           16777272         3GPP S6b         29.273 [20]           16777291         3GPP SC         29.273 [20]           16777302         3GPP SGmb         29.09 [7]           16777303         3GPP SGmb         29.017 [32]           16777304         3GPP Sd         29.212 [19]           16777308         3GPP S7a         29.272 [21]           16777310         3GPP S6m         29.336 [28]           16777311         3GPP S6m         29.338 [30]           16777312         3GPP S6c         29.338 [30]           16777313 <t< td=""><td></td><td></td><td></td></t<>			
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 SUg         29.172 [24]           16777264         3GPP SWm         29.273 [20]           16777265         3GPP SWm         29.273 [20]           16777266         3GPP SWx         29.212 [19]           16777267         3GPP S9         29.215 [22]           16777268         3GPP Sp         29.109 [7]           16777272         3GPP S6b         29.273 [20]           16777291         3GPP SGmb         29.061 [13]           16777302         3GPP SGmb         29.061 [13]           16777303         3GPP Sy         29.219 [26]           16777308         3GPP SG         29.272 [21]           16777310         3GPP S6m         29.368 [27]           16777311         3GPP S6m         29.336 [28]           16777312         3GPP S6c         29.338 [30]           16777313         3GPP S6c         29.338 [30]           16777316         3GPP S9a         29.215 [22]           16777337			
16777250   3GPP STa   29.273   20     16777251   3GPP S6a   29.272   21     16777252   3GPP S13/S13'   29.272   21     16777255   3GPP S14   29.273   20     16777264   3GPP SWm   29.273   20     16777265   3GPP SWx   29.273   20     16777266   3GPP SWx   29.273   20     16777267   3GPP SW   29.215   22     16777268   3GPP ZPM   29.109   7     16777272   3GPP S6b   29.273   20     16777291   3GPP SCB   29.109   7     16777292   3GPP SGM   29.061   13     16777302   3GPP SY   29.212   19     16777308   3GPP S7a   29.212   29     16777309   3GPP S7a   29.272   21     16777311   3GPP S6m   29.368   27     16777312   3GPP S6m   29.38   28     16777313   3GPP S6   29.338   30     16777316   3GPP SG   29.338   30     16777317   3GPP SG   29.212   19     16777318   3GPP SG   29.338   30     16777319   3GPP SP S   29.348   30     16777310   3GPP SP SG   29.338   30     16777311   3GPP SG   29.338   30     16777312   3GPP SG   29.338   30     16777313   3GPP SG   29.338   30     16777316   3GPP SG   29.338   30     16777317   3GPP SG   29.348   30     16777318   3GPP S9a   29.215   22     16777320   3GPP S9a   29.215   22     16777336   3GPP SG   29.348   31     16777340   3GPP SG   29.345   34     16777340   3GPP PC2   29.345   34     16777346   3GPP PC4   29.345   34     16777347   3GPP SG   29.128   36     16777346   3GPP NS   29.153   37     16777349   3GPP SG   29.343   32     16777349   3GPP SG   29.343   32     16777349   3GPP NS   29.153   37     16777349   3GPP NS   29.154   38     16777349   3GPP NS   29.153   37     16777355   3GPP DC2   29.343   32     16777355   3GPP DC2   29.343   32     16777356   3GPP DC2   29.343   32     16777349   3GPP NS   29.154   38     16777355   3GPP DC2   29.343   39     16777355   3GPP DG4   29.388   40			
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 SGmb         29.173 [25]           16777292         3GPP SGmb         29.061 [13]           16777302         3GPP SGmb         29.061 [13]           16777303         3GPP Sd         29.219 [26]           16777303         3GPP Sd         29.219 [26]           16777308         3GPP Sd         29.212 [19]           16777309         3GPP Sfa         29.272 [21]           16777310         3GPP S6m         29.336 [28]           16777311         3GPP S6c         29.338 [30]           16777313         3GPP S9a         29.212 [19]           16777318         3GPP S9a*         29.215 [22]           16777336			
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]           16777303         3GPP SG         29.219 [26]           16777303         3GPP Sd         29.212 [19]           16777308         3GPP S7a         29.272 [21]           16777309         3GPP SF         29.368 [27]           16777310         3GPP S6m         29.338 [28]           16777311         3GPP S6c         29.338 [30]           16777312         3GPP S6c         29.338 [30]           16777313         3GPP S9a         29.215 [22]           16777320         3GPP S9a         29.215 [22]           16777320         3GPP S9a*         29.215 [22]           16777340			
16777255         3GPP SLg         29.172 [24]           16777264         3GPP SWm         29.273 [20]           16777265         3GPP SWx         29.217 [20]           16777266         3GPP SWx         29.212 [19]           16777267         3GPP S9         29.215 [22]           16777268         3GPP Zpn         29.109 [7]           16777271         3GPP S6b         29.273 [20]           16777291         3GPP SInh         29.173 [25]           16777302         3GPP SGmb         29.061 [13]           16777303         3GPP Sy         29.219 [26]           16777308         3GPP Sd         29.212 [19]           16777309         3GPP Sa         29.272 [21]           16777310         3GPP S6m         29.336 [28]           16777312         3GPP S6m         29.338 [30]           16777313         3GPP S6c         29.338 [30]           16777314         3GPP S6c         29.338 [30]           16777315         3GPP S9a         29.215 [22]           16777316         3GPP S9a         29.215 [22]           16777330         3GPP S9a*         29.215 [22]           16777331         3GPP S9a*         29.215 [22]           16777330 <t< td=""><td></td><td></td><td></td></t<>			
16777264         3GPP SWm         29.273 [20]           16777265         3GPP SWx         29.273 [20]           16777266         3GPP Gxx         29.215 [22]           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 SGmb         29.019 [26]           16777303         3GPP SG         29.219 [26]           16777308         3GPP S7a         29.272 [21]           16777310         3GPP S6m         29.368 [27]           16777311         3GPP S6m         29.336 [28]           16777312         3GPP S6c         29.338 [30]           16777313         3GPP SGd         29.338 [30]           16777314         3GPP S9a         29.215 [22]           16777319         3GPP S9a         29.215 [22]           16777320         3GPP S9a         29.215 [22]           16777336         3GPP S9a         29.215 [22]           16777340         3GPP PC4a         29.344 [33]           16777340         <			
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 SCH         29.173 [25]           16777292         3GPP SGmb         29.061 [13]           16777303         3GPP SG         29.212 [19]           16777308         3GPP Sd         29.212 [19]           16777309         3GPP S7a         29.272 [21]           16777310         3GPP S6m         29.336 [28]           16777311         3GPP S6m         29.338 [30]           16777312         3GPP SGd         29.338 [30]           16777313         3GPP SGd         29.338 [30]           16777319         3GPP S9a         29.212 [19]           16777320         3GPP S9a         29.215 [22]           16777336         3GPP S9a*         29.215 [22]           16777337         3GPP S9a         29.215 [22]           16777336         3GPP NB2-C         29.468 [31]           16777337         3GPP DC4a         29.344 [33]           16777340			
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 SGmb         29.219 [26]           16777308         3GPP S7a         29.272 [21]           16777309         3GPP Tsp         29.368 [27]           16777310         3GPP S6m         29.336 [28]           16777311         3GPP S6c         29.338 [30]           16777312         3GPP S6c         29.338 [30]           16777313         3GPP SGd         29.338 [30]           16777319         3GPP S9a         29.212 [19]           16777320         3GPP S9a*         29.215 [22]           16777335         3GPP MB2-C         29.468 [31]           16777340         3GPP PC4a         29.344 [33]           16777340         3GPP PC2         29.343 [32]           16777342         3GPP Np         29.217 [35]           16777345         3GPP Nb         29.15 [36]           16777347 <t< td=""><td></td><td></td><td></td></t<>			
16777267         3GPP S9         29.215 [22]           16777268         3GPP Zpn         29.109 [7]           16777272         3GPP S6b         29.273 [20]           16777291         3GPP S6b         29.273 [20]           16777292         3GPP SGmb         29.061 [13]           16777302         3GPP SGmb         29.219 [26]           16777303         3GPP Sd         29.212 [19]           16777308         3GPP S7a         29.272 [21]           16777310         3GPP S6m         29.336 [28]           16777311         3GPP S6m         29.336 [28]           16777312         3GPP S6c         29.338 [30]           16777313         3GPP SGd         29.338 [30]           16777318         3GPP S9a         29.212 [19]           16777320         3GPP S9a         29.215 [22]           16777335         3GPP MB2-C         29.468 [31]           16777336         3GPP MB2-C         29.343 [32]           16777340         3GPP PC4a         29.344 [33]           16777340         3GPP NBC-C         29.345 [34]           16777345         3GPP NB         29.217 [35]           16777346         3GPP T6a/T6b         29.336 [28]           16777347			
16777268         3GPP Zpn         29.109 [7]           16777272         3GPP S6b         29.273 [20]           16777291         3GPP SLh         29.173 [25]           16777292         3GPP SGmb         29.061 [13]           16777302         3GPP Sy         29.219 [26]           16777303         3GPP Sd         29.212 [19]           16777308         3GPP S7a         29.272 [21]           16777310         3GPP S6m         29.336 [28]           16777311         3GPP S6m         29.338 [28]           16777312         3GPP S6c         29.338 [30]           16777313         3GPP S6c         29.338 [30]           16777318         3GPP S9a         29.212 [19]           16777320         3GPP S9a         29.215 [22]           16777335         3GPP MB2-C         29.468 [31]           16777336         3GPP MB2-C         29.468 [31]           16777340         3GPP PC4a         29.344 [33]           16777340         3GPP ND         29.217 [22]           16777340         3GPP ND         29.217 [35]           16777345         3GPP ND         29.217 [35]           16777346         3GPP NS         29.336 [28]           16777347 <t< td=""><td></td><td></td><td></td></t<>			
16777272         3GPP S6b         29.273 [20]           16777291         3GPP SLh         29.173 [25]           16777292         3GPP SGmb         29.061 [13]           16777302         3GPP Sy         29.219 [26]           16777303         3GPP Sd         29.212 [19]           16777308         3GPP S7a         29.272 [21]           16777309         3GPP Tsp         29.368 [27]           16777310         3GPP S6m         29.336 [28]           16777311         3GPP S6c         29.338 [30]           16777312         3GPP S6c         29.338 [30]           16777318         3GPP S9d         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 PC2         29.345 [34]           16777345         3GPP Np         29.217 [35]           16777346         3GPP Nb         29.128 [36]           16777349         3GPP Ns         29.153[37]           16777349 <t< td=""><td></td><td></td><td></td></t<>			
16777291         3GPP SLh         29.173 [25]           16777292         3GPP SGmb         29.061 [13]           16777302         3GPP Sy         29.219 [26]           16777303         3GPP Sd         29.212 [19]           16777308         3GPP S7a         29.272 [21]           16777309         3GPP Tsp         29.368 [27]           16777310         3GPP S6m         29.336 [28]           16777311         3GPP S6m         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]           16777340         3GPP PC2         29.343 [32]           16777342         3GPP Np         29.217 [35]           16777345         3GPP S6t         29.336 [28]           16777346         3GPP T6a/T6b         29.128 [36]           16777348         3GPP Nt         29.154 [38]           16777349			
16777292         3GPP SGmb         29.061 [13]           16777302         3GPP Sy         29.219 [26]           16777303         3GPP Sd         29.212 [19]           16777308         3GPP S7a         29.272 [21]           16777309         3GPP Tsp         29.368 [27]           16777310         3GPP S6m         29.336 [28]           16777311         3GPP S6m         29.337 [29]           16777312         3GPP S6c         29.338 [30]           16777313         3GPP SGd         29.338 [30]           16777318         3GPP SGd         29.338 [30]           16777319         3GPP S9a         29.212 [19]           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]           16777345         3GPP Np         29.217 [35]           16777346         3GPP Nb         29.128 [36]           16777348         3GPP Ns         29.153[37]           16777349         3GPP Ns         29.153[37]           16777350			
16777302       3GPP Sy       29.219 [26]         16777303       3GPP Sd       29.212 [19]         16777308       3GPP S7a       29.272 [21]         16777309       3GPP Tsp       29.368 [27]         16777310       3GPP S6m       29.336 [28]         16777311       3GPP S6c       29.338 [30]         16777312       3GPP S6c       29.338 [30]         16777313       3GPP SGd       29.338 [30]         16777318       3GPP SGd       29.338 [30]         16777319       3GPP S9a       29.212 [19]         16777320       3GPP S9a       29.215 [22]         16777335       3GPP MB2-C       29.468 [31]         16777336       3GPP PC4a       29.344 [33]         16777340       3GPP PC2       29.343 [32]         16777340       3GPP PC6/PC7       29.345 [34]         16777345       3GPP S6t       29.336 [28]         16777346       3GPP Np       29.217 [35]         16777347       3GPP Ns       29.153[37]         16777348       3GPP Nt       29.154[38]         16777349       3GPP Nt       29.154[38]         16777350       3GPP Diameter Data       29.283 [39]         Management       1677735			
16777303         3GPP Sd         29.212 [19]           16777308         3GPP S7a         29.272 [21]           16777309         3GPP Tsp         29.368 [27]           16777310         3GPP S6m         29.336 [28]           16777311         3GPP S6c         29.338 [30]           16777312         3GPP S6c         29.338 [30]           16777313         3GPP SGd         29.338 [30]           16777318         3GPP SGd         29.338 [30]           16777319         3GPP S9a         29.212 [19]           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]           16777347         3GPP Ns         29.153 [37]           16777348         3GPP Ns         29.153 [37]           16777349         3GPP Nt         29.154 [38]           16777350         3GPP Diameter Data         29.283 [39]           Management<			
16777308         3GPP S7a         29.272 [21]           16777309         3GPP Tsp         29.368 [27]           16777310         3GPP S6m         29.336 [28]           16777311         3GPP T4         29.337 [29]           16777312         3GPP S6c         29.338 [30]           16777313         3GPP SGd         29.338 [30]           16777318         3GPP S15         29.212 [19]           16777319         3GPP S9a         29.215 [22]           16777320         3GPP S9a*         29.215 [22]           16777335         3GPP MB2-C         29.468 [31]           16777336         3GPP PC4a         29.344 [33]           16777337         3GPP PC2         29.343 [32]           16777340         3GPP PC6/PC7         29.345 [34]           16777342         3GPP Np         29.217 [35]           16777345         3GPP S6t         29.336 [28]           16777346         3GPP T6a/T6b         29.128 [36]           16777347         3GPP Ns         29.153[37]           16777348         3GPP Nt         29.153[37]           16777349         3GPP St         29.212 [19]           16777350         3GPP Diameter Data         29.283 [39]           Manageme			
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 SGd         29.338 [30]           16777319         3GPP S9a         29.212 [19]           16777320         3GPP S9a*         29.215 [22]           16777335         3GPP MB2-C         29.468 [31]           16777336         3GPP PC4a         29.344 [33]           16777340         3GPP PC2         29.343 [32]           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]           16777350         3GPP Diameter Data         29.283 [39]           Management         16777355         3GPP V4         29.388 [40]			
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 Ns       29.128 [36]         16777347       3GPP Ns       29.153[37]         16777348       3GPP Nt       29.154[38]         16777349       3GPP St       29.212 [19]         16777350       3GPP Diameter Data Management       29.283 [39]         16777355       3GPP V4       29.388 [40]			
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 Ns         29.128 [36]           16777347         3GPP Ns         29.153[37]           16777348         3GPP Nt         29.154[38]           16777350         3GPP St         29.212 [19]           16777351         3GPP Diameter Data         29.283 [39]           Management         16777355         3GPP V4         29.388 [40]			
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 MB2-C         29.468 [31]           16777337         3GPP PC4a         29.344 [33]           16777340         3GPP PC2         29.343 [32]           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]           16777351         3GPP Diameter Data Management         29.283 [39]           16777355         3GPP V4         29.388 [40]			
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 Diameter Data Management         29.283 [39]           16777355         3GPP V4         29.388 [40]			
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]           16777350         3GPP St         29.212 [19]           16777351         3GPP Diameter Data Management         29.283 [39]           16777355         3GPP V4         29.388 [40]			
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]           16777350         3GPP St         29.212 [19]           16777351         3GPP Diameter Data Management         29.283 [39]           16777355         3GPP V4         29.388 [40]			
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 Diameter Data Management       29.283 [39]         16777355       3GPP V4       29.388 [40]			
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 Diameter Data Management         29.283 [39]           Management         29.388 [40]			
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 Diameter Data Management         29.283 [39]           Management         29.388 [40]			
16777337         3GPP PC2         29.343 [32]           16777340         3GPP PC6/PC7         29.345 [34]           16777342         3GPP Np         29.217 [35]           16777345         3GPP S6t         29.336 [28]           16777346         3GPP T6a/T6b         29.128 [36]           16777347         3GPP Ns         29.153[37]           16777348         3GPP Nt         29.154[38]           16777349         3GPP St         29.212 [19]           16777350         3GPP PC2         29.343 [32]           16777351         3GPP Diameter Data Management         29.283 [39]           Management         29.388 [40]			
16777340     3GPP PC6/PC7     29.345 [34]       16777342     3GPP Np     29.217 [35]       16777345     3GPP S6t     29.336 [28]       16777346     3GPP T6a/T6b     29.128 [36]       16777347     3GPP Ns     29.153[37]       16777348     3GPP Nt     29.154[38]       16777349     3GPP St     29.212 [19]       16777350     3GPP PC2     29.343 [32]       16777351     3GPP Diameter Data Management     29.283 [39]       16777355     3GPP V4     29.388 [40]			
16777342     3GPP Np     29.217 [35]       16777345     3GPP S6t     29.336 [28]       16777346     3GPP T6a/T6b     29.128 [36]       16777347     3GPP Ns     29.153[37]       16777348     3GPP Nt     29.154[38]       16777349     3GPP St     29.212 [19]       16777350     3GPP PC2     29.343 [32]       16777351     3GPP Diameter Data Management     29.283 [39]       16777355     3GPP V4     29.388 [40]			
16777345         3GPP S6t         29.336 [28]           16777346         3GPP T6a/T6b         29.128 [36]           16777347         3GPP Ns         29.153[37]           16777348         3GPP Nt         29.154[38]           16777349         3GPP St         29.212 [19]           16777350         3GPP PC2         29.343 [32]           16777351         3GPP Diameter Data Management         29.283 [39]           16777355         3GPP V4         29.388 [40]			
16777346     3GPP T6a/T6b     29.128 [36]       16777347     3GPP Ns     29.153[37]       16777348     3GPP Nt     29.154[38]       16777349     3GPP St     29.212 [19]       16777350     3GPP PC2     29.343 [32]       16777351     3GPP Diameter Data Management     29.283 [39]       16777355     3GPP V4     29.388 [40]			
16777347     3GPP Ns     29.153[37]       16777348     3GPP Nt     29.154[38]       16777349     3GPP St     29.212 [19]       16777350     3GPP PC2     29.343 [32]       16777351     3GPP Diameter Data Management     29.283 [39]       16777355     3GPP V4     29.388 [40]			
16777348     3GPP Nt     29.154[38]       16777349     3GPP St     29.212 [19]       16777350     3GPP PC2     29.343 [32]       16777351     3GPP Diameter Data Management     29.283 [39]       16777355     3GPP V4     29.388 [40]			
16777349     3GPP St     29.212 [19]       16777350     3GPP PC2     29.343 [32]       16777351     3GPP Diameter Data     29.283 [39]       Management     4     29.388 [40]			
16777350     3GPP PC2     29.343 [32]       16777351     3GPP Diameter Data     29.283 [39]       Management     29.388 [40]			
16777351 3GPP Diameter Data 29.283 [39] Management 29.388 [40]			
Management           16777355         3GPP V4         29.388 [40]			
	16777351		29.283 [39]
	16777355	ŭ	29.388 [40]
10111330   3GFF V0   29.309 [41]	16777356	3GPP V6	29.389 [41]

## 5 Command codes

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

#### 5.1 Command codes allocated for 3GPP

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

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

Command code value	Command name	Abbreviation		ecified in GPP TS		
300	User-Authorization-Request/-Answer	UAR/UAA				
301	Server-Assignment-Request/-Answer	SAR/SAA				
302	Location-Info-Request/-Answer	LIR/LIA				
303	Multimedia-Auth-Request/-Answer	MAR/MAA	29	29.229 [2]		
304	Registration-Termination-Request/-	RTR/RTA				
	Answer					
305	Push-Profile-Request/-Answer	PPR/PPA				
306	User-Data-Request/-Answer	UDR/UDA				
307	Profile-Update-Request/-Answer	PUR/PUA	20	.329 [4]		
308	Subscribe-Notifications-Request/-Answe	r SNR/SNA	29	.329 [4]		
309	Push-Notification-Request/-Answer	PNR/PNA				
310	Boostrapping-Info-Request/Answer	BIR/BIA	29	.109 [7]		
•	311 Message-Proces	s-Request/Answer		MPR/MF	PA	29.140 [16]
	312 GBAPush-Info-R	equest/Answer		GPR/GF	기	29.109 [7]

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS	
8388620	Provide-Location-Request/Answer	PLR/PLA		
8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]	
8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]	
8388635	Spending-Limit-Request/Answer	SLR/SLA	20 240 [20]	
8388636	Spending-Status-Notification- Request/Answer	SNR/SNA	29.219 [26]	
8388637	TDF-Session-Request/Answer	TSR/TSA	20 242 [40]	
8388731	TSSF-Notification-Request/Answer	TNR/TNA	29.212 [19]	
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	20 272 [24]	
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]	
8388639	Device-Action-Request/Answer	DAR/DAA	00 000 [07]	
8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]	
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]	
8388718	Configuration-Information- Request/Answer	CIR/CIA		
8388719	Reporting-Information- Request/Answer	RIR/RIA	29.336 [28]	
8388726	NIDD-Information-Request/Answer	NIR/NIA		
8388643	Device-Trigger-Request/Answer	DTR/DTA		
8388644	Delivery-Report-Request/Answer	DRR/DRA	29.337 [29]	
8388645	MO-Forward-Short-Message Request/Answer	OFR/OFA		
8388646	MT-Forward-Short-Message Request/Answer	TFR/TFA		
8388647	Send-Routing-Info-for-SM- Request/Answer	SRR/SRA	29.338 [30]	
8388648	Alert-Service-Centre-Request/Answer	ALR/ALA		
8388649	Report-SM-Delivery-Status- Request/Answer	RDR/RDA		
8388656	Trigger-Establishment-Request/Answer	TER/TEA	29.215 [30]	
8388662	GCS-Action-Request/Answer	GAR/GAA		
8388663	GCS-Notification-Request/Answer	GNR/GNA	29.468 [31]	
8388664	ProSe-Subscriber-Information- Request/Answer	PIR/PIA		
8388665	Update-ProSe-Subscriber-Data- Request/Answer	UPR/UPA		
8388666	ProSe-Notify-Request/Answer	PNR/PNA	29.344 [33]	
8388713	ProSe-Initial-Location-Information- Request/Answer	PSR/PSA		
8388668	ProSe-Authorization-Request/Answer	PAR/PAA		
8388669	ProSe-Discovery-Request/Answer	PDR/PDA	29.345 [34]	
8388670	ProSe-Match-Request/Answer	PMR/PMA		

8388671	ProSe-Match-Report-Info- Request/Answer	PIR/PIA	
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	
8388674	ProSe-Alert-Request/Answer	ALR/ALA	
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	-
8388676	ProXimity-Action-Request/Answer	PXR/PXA	
8388727	ProXimity-Application-Request/Answer	XAR/XAA	29.343 [32]
8388720	Non-Aggregated-RUCI-Report- Request/Answer	NRR/NRA	
8388721	Aggregated-RUCI-Report- Request/Answer	ARR/ARA	29.217 [35]
8388722	Modify-Uecontext-Request/Answer	MUR/MUA	
8388724	Network-Status-Request/Answer	NSR/NSA	
8388725	Network-Status-Continuous-Report- Request/Answer	NCR/NCA	29.153 [37]
8388723	Background-Data-Transfer- Request/Answer	BTR/BTA	29.154 [38]
8388728	Data-Pull-Request/Answer	DPR/DPA	
8388729	Data-Update-Request/Answer	DUR/DUA	29.283 [39]
8388730	Notification-Data-Request/Answer	NDR/NDA	
8388732	Connection-Management- Request/Answer	CMR/CMA	
8388733	MO-Data-Request/Answer	ODR/ODA	29.128 [36]
8388734	MT-Data-Request/Answer	TDR/TDA	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	Attribute Name	Data Type	Specified
Code			in the 3GPP TS
	3GPP-WLAN-APN-Id	OctetString	
	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
	3GPP-WLAN-QoS-Filter-Support	OctetString	
Attribu	The AVP codes from 1 to 255 are reserved for backwards computes (See TS 29.061 [13] and TS 29.234 [6])	patibility with 3GPP RADIUS Vendor	Specific
	The AVP codes from 256 to 299 are reserved for future use.		1
	Authentication-Method	Enumerated	
	Authentication-Information-SIM	OctetString	
	Authorization -Information-SIM WLAN-User-Data	OctetString	<del> </del>
	WLAN-Oser-Data Charging-Data	Grouped Grouped	<del></del>
	WLAN-Access	Enumerated	
	WLAN- 3GPP-IP-Access	Enumerated	
	APN-Authorized	Grouped	
	APN-Id	3.54,554	
	APN-Barring-Type	Enumerated	20 224 [6]
	WLAN-Direct-IP-Access	Enumerated	29.234 [6]
	Session-Request-Type	Enumerated	
	Routing-Policy	IPFilterRule	
	Max-Requested-Bandwidth	OctetString	
	Charging-Characteristics	Integer	
	Charging-Nodes	Grouped	
	Primary-OCS-Charging-Function-Name	DiameterIdentity	
	Secondary-OCS-Charging-Function-Name 3GPP-AAA-Server-Name	DiameterIdentity	
	Maximum-Number-Accesses	DiameterIdentity Unsigned32	<del></del>
	1: The AVP codes from 320 to 399 are reserved for TS 29.234	Unsigned32	
	2: The 3GPP-AAA-Server-Name definition is moved to TS 29.23	'3 starting from Rel-12	
	GBA-UserSecSettings	OctetString	
401	Transaction-Identifier	OctetString	
	NAF-Hostname	OctetString	
	GAA-Service-Identifier Key-ExpiryTime	OctetString Time	<del> </del>
	ME-Key-Material	OctetString	<del></del>
406	UICC-Key-Material	OctetString	
	GBA_U-Awareness-Indicator	Enumerated	
408	BootstrapInfoCreationTime GUSS-Timestamp	Time Time	
409	GBA-Type	Enumerated	29.109 [7]
411	UE-Id	OctetString	20.100[/]
412	UE-Id-Type	Enumerated	
413	UICC-App-Label	OctetString	
	UICC-ME Requested-Key-Lifetime	Enumerated Time	
416	Private-Identity-Request	Enumerated	
417	GBA-Push-Info	OctetString	
418	NAF-SA-Identifier	OctetString	
419	Security-Feature-Request Security-Feature-Response	OctetString OctetString	
	The AVP codes from 421 to 499 are reserved for TS 29.109	OctetString	
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	
	Access-Network-Charging-Identifier	Grouped	
	Access-Network-Charging-Identifier-Value	OctetString	
504	AF-Application-Identifier	OctetString	
	AF-Charging-Identifier	OctetString	29.209
	Authorization-Token	OctetString	[8], 29.211
	Flow-Description	IPFilterRule	[17],
	Flow-Grouping	Grouped	29.214
	Flow-Number	Unsigned32	[18]
	Flows	Grouped	
	Flow Hooga	Enumerated	
	Flow-Usage Specific-Action	Enumerated	
	Max-Requested-Bandwidth	Enumerated Unsigned32	<del>-  </del>
J14	max-requesteu-pariuwiutii	Ulisiglieusz	

	[		
	Max-Requested-Bandwidth-DL	Unsigned32	1
	Max-Requested-Bandwidth-UL	Unsigned32	1
	Media-Component-Description	Grouped	<del> </del>
	Media-Component-Number	Unsigned32	1
	Media-Sub-Component AVP	Grouped	1
	Media-Type	Enumerated	1
	RR-Bandwidth	Unsigned32	1
	RS-Bandwidth	Unsigned32	1
	SIP-Forking-Indication	Enumerated	<u> </u>
	Codec-Data	OctetString	<u> </u>
	Service-URN	OctetString	<b>↓</b>
	Acceptable-Service-Info	Grouped	1
	Service-Info-Status	Enumerated	1
	MPS-Identifier	OctetString	1
	AF-Signalling-Protocol	Enumerated	1
	Sponsored-Connectivity-Data	Grouped	
	Sponsor-Identity	OctetString	. I
	Application-Service-Provider-Identity	OctetString	<u> </u>
	Rx-Request-Type	Enumerated	<u> </u>
	Min-Requested-Bandwidth-DL	Unsigned32	1
	Min-Requested-Bandwidth-UL	Unsigned32	1
	Required-Access-Info	Enumerated	1
	IP-Domain-Id	OctetString	1
538	GCS-Identifier	OctetString	I
539	Sharing-Key-DL	Unsigned32	
540	Sharing-Key-UL	Unsigned32	]
	Retry-Interval	Unsigned32	1
	Sponsoring-Action	Enumerated	1
	Max-Supported-Bandwidth-DL	Unsigned32	1
	Max-Supported-Bandwidth-UL	Unsigned32	1
	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	†
	The AVP codes from 554 to 599 are reserved for TS 29.209, TS		
	Visited-Network-Identifier	OctetString	
	Public-Identity	UTF8String	†
	Server-Name	UTF8String	†
	Server-Capabilities	Grouped	<del> </del>
	Mandatory-Capability	Unsigned32	+
	Optional-Capability	Unsigned32	+
	User-Data	OctetString	†
	SIP-Number-Auth-Items	Unsigned32	†
	SIP-Authentication-Scheme	UTF8String	†
	SIP-Authenticate	OctetString	1
			1
	SIP-Authorization SIP-Authentication-Context	OctetString OctetString	1
			00 000 [0]
	SIP-Auth-Data-Item	Grouped	29.229 [2]
	SIP-Item-Number	Unsigned32	1
	Server-Assignment-Type	Enumerated	1
	Deregistration-Reason	Grouped	1
	Reason-Code	Enumerated	<u> </u>
	Reason-Info	UTF8String	<u> </u>
	Charging-Information	Grouped	<u> </u>
	Primary-Event-Charging-Function-Name	DiameterURI	1
	Secondary-Event-Charging-Function-Name	DiameterURI	<b>,</b>
	Primary-Charging-Collection-Function-Name	DiameterURI	<u> </u>
	Secondary-Charging-Collection-Function-Name	DiameterURI	<u> </u>
	User-Authorization-Type	Enumerated	<u> </u>
624	User-Data-Already-Available	Enumerated	

Confidentiality-Key		<del>,</del>		
628   Supported-Features   Grouped			·	1
629   Feature-List-ID				1
S03   Supported-Applications   Grouped				_
Grouped   Grou				_
				_
1834   Wildcarded-Public-Identity   UTF8String   35 SIP-Digest-Authenticate   Grouped   UTF8String   1835 SIP-Digest-Authenticate   Grouped   UTF8String   1877 UAR-Flags   Unsigned32   1838 Loose-Route-Indication   Enumerated   1839 SCSCF-Restoration-Info   Grouped   1840				1
Signormonia   Grouped				1
Sas   Wildcarded-IMPU				1
Base   Date   Park				1
Gasa   Cosc-Prestoration-Info   Grouped				<u> </u>
Grouped				
G41   Contact	638	Loose-Route-Indication	Enumerated	
Gotage   G	639	SCSCF-Restoration-Info	Grouped	
Subscription-Info	640	Path	OctetString	
Gall-ID-SIP-Header	641	Contact	OctetString	1
From-SIP-Header	642	Subscription-Info	Grouped	Ī
To-SIP-Header	643	Call-ID-SIP-Header	OctetString	Ī
646   Record-Route	644	From-SIP-Header	OctetString	1
Associated-Registered-Identities   Grouped				1
Associated-Registered-Identities   Grouped				1
B48   Multiple-Registration-Info   Grouped			U	1
Restoration-Info				1
Session-Priority				1
				†
652 Priviledged-Sender-Indication         Enumerated           653 LIA-Flags         Unsigned32           654 Initial-CSeq-Sequence-Number         Unsigned32           655 SAR-Flags         Unsigned32           656 Allowed-WAF-WWSF-Identities         Grouped           657 WebRTC-Authentication-Function-Name         UTF8String           Note: The AVP codes from 659 to 699 are reserved for TS 29.229.         TOI           700 User-Identity         Grouped           701 MSISDN         OctetString           702 User-Data         OctetString           703 Data-Reference         Enumerated           704 Service-Indication         OctetString           705 SubsReq-Type         Enumerated           706 Requested-Domain         Enumerated           707 Roll Identity-Set         Enumerated           708 Identity-Set         Enumerated           709 Expiry-Time         Time           710 Send-Data-Indication         Enumerated           711 DSAI-Tag         OctetString         29.329 [4]           712 One-Time-Notification         Enumerated           713 Requested-Nodes         Unsigned32           714 Serving-Node-Indication         Enumerated           715 Repository-Data-ID         Grouped				Ī
653         LIA-Flags         Unsigned32           655         SAR-Flags         Unsigned32           656         SAR-Flags         Unsigned32           657         WebRTC-Authentication-Function-Name         UTF8String           658         WebRTC-Web-Server-Function-Name         UTF8String           Note: The AVP codes from 659 to 699 are reserved for TS 29.229.         Grouped           700         User-Identity         Grouped           701         MSISDN         OctetString           702         User-Data         OctetString           703         Data-Reference         Enumerated           704         Service-Indication         OctetString           705         Subs-Req-Type         Enumerated           706         Requested-Domain         Enumerated           707         Current-Location         Enumerated           708         Expiry-Time         Time           710         Send-Data-Indication         Enumerated           711         DSAL-Tag         OctetString           712         One-Time-Notification         Enumerated           713         Requested-Nodes         Unsigned32           714         Serving-Node-Indication         Enumerated				Ī
655         Initial-CSeq-Sequence-Number         Unsigned32           655         SAR-Flags         Unsigned32           656         Allowed-WAF-WWSF-Identities         Grouped           657         WebRTC-Authentication-Function-Name         UTF8String           Note: The AVP codes from 659 to 699 are reserved for TS 29.229.         Grouped           701         MSISDN         OctetString           702         User-Identity         OctetString           703         Data-Reference         Enumerated           704         Service-Indication         OctetString           705         Subs-Req-Type         Enumerated           706         Requested-Domain         Enumerated           707         Current-Location         Enumerated           709         Light-Indication         Time           709         Expiry-Time         Time           710         Send-Data-Indication         Enumerated           711         DSAI-Tag         OctetString           712         One-Time-Notification         Enumerated           713         Requested-Nodes         Unsigned32           714         Serving-Node-Indication         Enumerated           715         Repository-Data-ID				†
655         SAR-Flags         Unsigned32           656         Allowed-WAF-WWSF-Identities         Grouped           657         WebRTC-Authentication-Function-Name         UTF8String           Note: The AVP codes from 659 to 699 are reserved for TS 29.229.         Grouped           700         User-Identity         Grouped           701         MSISDN         OctetString           702         Duser-Data         OctetString           703         Data-Reference         Enumerated           704         Service-Indication         OctetString           705         Subs-Req-Type         Enumerated           706         Requested-Domain         Enumerated           707         Current-Location         Enumerated           708         Repsity-Time         Time           710         Send-Data-Indication         Enumerated           711         DSAI-Tag         OctetString           712         One-Time-Notification         Enumerated           713         Requested-Nodes         Unsigned32           714         Serving-Node-Indication         Enumerated           713         Requested-Nodes         Unsigned32           714         Serving-Node-Indication         Enume	654	Initial-CSeg-Seguence-Number		1
656         Allowed-WAF-WWSF-Identities         Grouped           657         WebRTC-Authentication-Function-Name         UTF8String           658         WebRTC-Web-Server-Function-Name         UTF8String           Note: The AVP codes from 659 to 699 are reserved for TS 29.229.         Grouped           700         User-Identity         Grouped           701         MSISDN         OctetString           702         User-Data         OctetString           703         Data-Reference         Enumerated           704         Service-Indication         OctetString           705         Subs-Req-Type         Enumerated           706         Requested-Domain         Enumerated           707         Requested-Domain         Enumerated           708         Identity-Set         Enumerated           709         Expiry-Time         Time           710         Sela-Tag         OctetString           711         DSAI-Tag         OctetString           712         One-Time-Notification         Enumerated           713         Requested-Nodes         Unsigned32           714         Serving-Node-Indication         Enumerated           715         Repository-Data-ID         Grou				†
657   WebRTC-Authentication-Function-Name				†
Note: The AVP codes from 659 to 699 are reserved for TS 29.229.				†
Note: The AVP codes from 659 to 699 are reserved for TS 29.229.   Grouped			Ŭ	†
Total   Tota			O 11 Ooting	
701 MSISDN         OctetString           702 User-Data         OctetString           703 Data-Reference         Enumerated           704 Service-Indication         OctetString           705 Subs-Req-Type         Enumerated           706 Requested-Domain         Enumerated           707 Current-Location         Enumerated           708 Identity-Set         Enumerated           709 Expiry-Time         Time           710 Send-Data-Indication         Enumerated           711 DSAI-Tag         OctetString         29.329 [4]           712 One-Time-Notification         Enumerated           713 Requested-Nodes         Unsigned32           714 Serving-Node-Indication         Enumerated           715 Repository-Data-ID         Grouped           716 Sequence-Number         Unsigned32           717 Pre-paging-Supported         Enumerated           718 Local-Time-Zone-Indication         Enumerated           719 UDR-Flags         Unsigned32           720 Call-Reference-Info         Grouped           721 Call-Reference-Info         Grouped           722 AS-Number         OctetString           Note: The AVP codes from 723 to799 are reserved for TS 29.329.           Note: The AVP codes from 800 to 822 are reserved fo			Grouped	
Total				†
703         Data-Reference         Enumerated           704         Service-Indication         OctetString           705         Subs-Req-Type         Enumerated           706         Requested-Domain         Enumerated           707         Current-Location         Enumerated           708         Identity-Set         Enumerated           709         Expiry-Time         Time           710         Send-Data-Indication         Enumerated           711         DSAI-Tag         OctetString         29.329 [4]           712         One-Time-Notification         Enumerated           713         Requested-Nodes         Unsigned32           714         Serving-Node-Indication         Enumerated           715         Repository-Data-ID         Grouped           716         Sequence-Number         Unsigned32           717         Pre-paging-Supported         Enumerated           718         Local-Time-Zone-Indication         Enumerated           719         UDR-Flags         Unsigned32           720         Call-Reference-Info         Grouped           721         Call-Reference-Number         OctetString           Note: The AVP codes from 723 to799 are reserved for TS				+
704         Service-Indication         OctetString           705         Subs-Req-Type         Enumerated           706         Requested-Domain         Enumerated           707         Current-Location         Enumerated           708         Identity-Set         Enumerated           709         Expiry-Time         Time           710         Send-Data-Indication         Enumerated           711         DSAI-Tag         OctetString         29.329 [4]           712         One-Time-Notification         Enumerated           713         Requested-Nodes         Unsigned32           714         Serving-Node-Indication         Enumerated           715         Repository-Data-ID         Grouped           716         Sequence-Number         Unsigned32           717         Pre-paging-Supported         Enumerated           718         Local-Time-Zone-Indication         Enumerated           719         UDR-Flags         Unsigned32           720         Call-Reference-Info         Grouped           721         Call-Reference-Number         OctetString           Note: The AVP codes from 723 to799 are reserved for TS 29.329.           Note: The AVP codes from 800 to 822 are reserved for TS				†
Total   Subs-Req-Type				†
Total   Requested-Domain   Enumerated   Fourier   Courrent   Location   Enumerated   Enumerated   Fourier   Courrent   Location   Enumerated   Enumerated   Enumerated   Enumerated   Enumerated   Time   Time   Time   Time   Time   Time   Time   Total   DSAI-Tag   OctetString   OctetString   29.329 [4]   Total   Cone-Time-Notification   Enumerated   Total   Requested-Nodes   Unsigned32   Total   Serving-Node-Indication   Enumerated   Total   Serving-Node-Indication   Enumerated   Total   Sequence-Number   Unsigned32   Total   Pre-paging-Supported   Enumerated   Total   Local-Time-Zone-Indication   Enumerated   Total   Unsigned32   Total   Unsigned32   Total   Unsigned32   Total   Unsigned32   Total   Unsigned32   Total   Unsigned32   Total   Total				+
707         Current-Location         Enumerated           708         Identity-Set         Enumerated           709         Expiry-Time         Time           710         Send-Data-Indication         Enumerated           711         DSAI-Tag         OctetString         29.329 [4]           712         One-Time-Notification         Enumerated           713         Requested-Nodes         Unsigned32           714         Serving-Node-Indication         Enumerated           715         Repository-Data-ID         Grouped           716         Sequence-Number         Unsigned32           717         Pre-paging-Supported         Enumerated           718         Local-Time-Zone-Indication         Enumerated           719         UDR-Flags         Unsigned32           720         Call-Reference-Info         Grouped           721         Call-Reference-Number         OctetString           722         AS-Number         OctetString           Note: The AVP codes from 723 to799 are reserved for TS 29.329.         Sevent-Type         Grouped           823         Event-Type         Grouped           824         SIP-Method         UTF8String           825         Ev				+
708 Identity-Set         Enumerated           709 Expiry-Time         Time           710 Send-Data-Indication         Enumerated           711 DSAI-Tag         OctetString         29.329 [4]           712 One-Time-Notification         Enumerated           713 Requested-Nodes         Unsigned32           714 Serving-Node-Indication         Enumerated           715 Repository-Data-ID         Grouped           716 Sequence-Number         Unsigned32           717 Pre-paging-Supported         Enumerated           718 Local-Time-Zone-Indication         Enumerated           719 UDR-Flags         Unsigned32           720 Call-Reference-Info         Grouped           721 Call-Reference-Info         Grouped           722 AS-Number         OctetString           Note: The AVP codes from 723 to799 are reserved for TS 29.329.           Note: The AVP codes from 800 to 822 are reserved for TS 32.299.           823 Event-Type         Grouped           824 SIP-Method         UTF8String           825 Event         UTF8String           826 Content-Type         UTF8String				+
709         Expiry-Time         Time           710         Send-Data-Indication         Enumerated           711         DSAI-Tag         OctetString         29.329 [4]           712         One-Time-Notification         Enumerated           713         Requested-Nodes         Unsigned32           714         Serving-Node-Indication         Enumerated           715         Repository-Data-ID         Grouped           716         Sequence-Number         Unsigned32           717         Pre-paging-Supported         Enumerated           718         Local-Time-Zone-Indication         Enumerated           719         UDR-Flags         Unsigned32           720         Call-Reference-Info         Grouped           721         Call-Reference-Number         OctetString           722         AS-Number         OctetString           Note: The AVP codes from 723 to799 are reserved for TS 29.329.         Note: The AVP codes from 800 to 822 are reserved for TS 32.299.           823         Event-Type         Grouped           824         SIP-Method         UTF8String           825         Event         UTF8String           826         Content-Type         UTF8String				+
710         Send-Data-Indication         Enumerated           711         DSAI-Tag         OctetString         29.329 [4]           712         One-Time-Notification         Enumerated           713         Requested-Nodes         Unsigned32           714         Serving-Node-Indication         Enumerated           715         Repository-Data-ID         Grouped           716         Sequence-Number         Unsigned32           717         Pre-paging-Supported         Enumerated           718         Local-Time-Zone-Indication         Enumerated           719         UDR-Flags         Unsigned32           720         Call-Reference-Info         Grouped           721         Call-Reference-Number         OctetString           722         AS-Number         OctetString           Note: The AVP codes from 723 to799 are reserved for TS 29.329.         Note: The AVP codes from 800 to 822 are reserved for TS 32.299.           823         Event-Type         Grouped           824         SIP-Method         UTF8String           825         Event         UTF8String           826         Content-Type         UTF8String				+
711 DSAI-Tag         OctetString           712 One-Time-Notification         Enumerated           713 Requested-Nodes         Unsigned32           714 Serving-Node-Indication         Enumerated           715 Repository-Data-ID         Grouped           716 Sequence-Number         Unsigned32           717 Pre-paging-Supported         Enumerated           718 Local-Time-Zone-Indication         Enumerated           719 UDR-Flags         Unsigned32           720 Call-Reference-Info         Grouped           721 Call-Reference-Number         OctetString           Note: The AVP codes from 723 to 799 are reserved for TS 29.329.           Note: The AVP codes from 800 to 822 are reserved for TS 32.299.           823 Event-Type         Grouped           824 SIP-Method         UTF8String           825 Event         UTF8String           826 Content-Type         UTF8String				+
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714Serving-Node-IndicationEnumerated715Repository-Data-IDGrouped716Sequence-NumberUnsigned32717Pre-paging-SupportedEnumerated718Local-Time-Zone-IndicationEnumerated719UDR-FlagsUnsigned32720Call-Reference-InfoGrouped721Call-Reference-NumberOctetString722AS-NumberOctetStringNote: The AVP codes from 723 to799 are reserved for TS 29.329.Note: The AVP codes from 800 to 822 are reserved for TS 32.299.823Event-TypeGrouped824SIP-MethodUTF8String825EventUTF8String826Content-TypeUTF8String				+
715         Repository-Data-ID         Grouped           716         Sequence-Number         Unsigned32           717         Pre-paging-Supported         Enumerated           718         Local-Time-Zone-Indication         Enumerated           719         UDR-Flags         Unsigned32           720         Call-Reference-Info         Grouped           721         Call-Reference-Number         OctetString           722         AS-Number         OctetString           Note: The AVP codes from 723 to799 are reserved for TS 29.329.         OctetString           Note: The AVP codes from 800 to 822 are reserved for TS 32.299.         Grouped           823         Event-Type         Grouped           824         SIP-Method         UTF8String           825         Event         UTF8String           826         Content-Type         UTF8String			<u> </u>	+
716         Sequence-Number         Unsigned32           717         Pre-paging-Supported         Enumerated           718         Local-Time-Zone-Indication         Enumerated           719         UDR-Flags         Unsigned32           720         Call-Reference-Info         Grouped           721         Call-Reference-Number         OctetString           722         AS-Number         OctetString           Note: The AVP codes from 723 to799 are reserved for TS 29.329.         OctetString           823         Event-Type         Grouped           824         SIP-Method         UTF8String           825         Event         UTF8String           826         Content-Type         UTF8String				4
717         Pre-paging-Supported         Enumerated           718         Local-Time-Zone-Indication         Enumerated           719         UDR-Flags         Unsigned32           720         Call-Reference-Info         Grouped           721         Call-Reference-Number         OctetString           722         AS-Number         OctetString           Note: The AVP codes from 723 to 799 are reserved for TS 29.329.         OctetString           Note: The AVP codes from 800 to 822 are reserved for TS 32.299.         Grouped           823         Event-Type         Grouped           824         SIP-Method         UTF8String           825         Event         UTF8String           826         Content-Type         UTF8String				4
718         Local-Time-Zone-Indication         Enumerated           719         UDR-Flags         Unsigned32           720         Call-Reference-Info         Grouped           721         Call-Reference-Number         OctetString           722         AS-Number         OctetString           Note: The AVP codes from 723 to799 are reserved for TS 29.329.           Note: The AVP codes from 800 to 822 are reserved for TS 32.299.           823         Event-Type         Grouped           824         SIP-Method         UTF8String           825         Event         UTF8String           826         Content-Type         UTF8String			<u> </u>	4
719         UDR-Flags         Unsigned32           720         Call-Reference-Info         Grouped           721         Call-Reference-Number         OctetString           722         AS-Number         OctetString           Note: The AVP codes from 723 to799 are reserved for TS 29.329.           Note: The AVP codes from 800 to 822 are reserved for TS 32.299.           823         Event-Type         Grouped           824         SIP-Method         UTF8String           825         Event         UTF8String           826         Content-Type         UTF8String				4
720         Call-Reference-Info         Grouped           721         Call-Reference-Number         OctetString           722         AS-Number         OctetString           Note: The AVP codes from 723 to799 are reserved for TS 29.329.         OctetString           Note: The AVP codes from 800 to 822 are reserved for TS 32.299.         Grouped           823         Event-Type         Grouped           824         SIP-Method         UTF8String           825         Event         UTF8String           826         Content-Type         UTF8String				4
721         Call-Reference-Number         OctetString           722         AS-Number         OctetString           Note: The AVP codes from 723 to799 are reserved for TS 29.329.           Note: The AVP codes from 800 to 822 are reserved for TS 32.299.           823         Event-Type         Grouped           824         SIP-Method         UTF8String           825         Event         UTF8String           826         Content-Type         UTF8String				4
722         AS-Number         OctetString           Note: The AVP codes from 723 to799 are reserved for TS 29.329.           Note: The AVP codes from 800 to 822 are reserved for TS 32.299.           823         Event-Type         Grouped           824         SIP-Method         UTF8String           825         Event         UTF8String           826         Content-Type         UTF8String				4
Note: The AVP codes from 723 to799 are reserved for TS 29.329.           Note: The AVP codes from 800 to 822 are reserved for TS 32.299.           823         Event-Type         Grouped           824         SIP-Method         UTF8String           825         Event         UTF8String           826         Content-Type         UTF8String				4
Note: The AVP codes from 800 to 822 are reserved for TS 32.299.           823         Event-Type         Grouped           824         SIP-Method         UTF8String           825         Event         UTF8String           826         Content-Type         UTF8String			OctetString	
823         Event-Type         Grouped           824         SIP-Method         UTF8String           825         Event         UTF8String           826         Content-Type         UTF8String				
824         SIP-Method         UTF8String           825         Event         UTF8String         32.299 [5]           826         Content-Type         UTF8String				1
825 Event         UTF8String         32.299 [5]           826 Content-Type         UTF8String				
826 Content-Type UTF8String				<u> </u>
				32.299 [5]
827   Content-Length Unsigned32				]
	827	Content-Length	Unsigned32	

828 C	ontent-Disposition	UTF8String
829 R	ole-of-Node	Enumerated
830 Us	ser-Session-Id	UTF8String
831 Ca	alling-Party-Address	UTF8String
	alled-Party-Address	UTF8String
	me-Stamps	Grouped
834 SI	IP-Request-Timestamp	Time
835 SI	IP-Response-Timestamp	Time
836 Ap	pplication-Server	UTF8String
837 A	pplication-provided-called-party-address	UTF8String
838 In	ter-Operator-Identifier	Grouped
839 O	riginating-IOI	UTF8String
	erminating-IOI	UTF8String
841 IN	/IS-Charging-Identifier	UTF8String
	DP-Session-Description	UTF8String
	DP-Media-Component	Grouped
	DP-Media-Name	UTF8String
	DP-Media-Description	UTF8String
	G-Address	Address
	GSN-Address	Address
	erved-Party-IP-Address	Address
	uthorized-QoS	UTF8String
	pplication-Server-Information	Grouped
	runk-Group-Id	Grouped
	coming-Trunk-Group-Id	UTF8String
853 0	utgoing-Trunk-Group-Id	UTF8String
	earer-Service	OctetString
	ervice-Id	UTF8String
	ssociated-URI	UTF8String
	harged-Party	UTF8String
	oC-Controlling-Address	UTF8String
	oC-Group-Name	UTF8String
860 Ca		Grouped
	ause-Code	Integer32
	ode-Functionality	Enumerated
	ervice-Specific-Data	UTF8String
	riginator	Enumerated
	S-Furnish-Charging-Information	Grouped
	S-Free-Format-Data	OctetString
	S-Append-Free-Format-Data	Enumerated
	me-Quota-Threshold	Unsigned32
	olume-Quota-Threshold	Unsigned32
	rigger-Type	Enumerated
	uota-Holding-Time	Unsigned32
	eporting-Reason	Enumerated
	ervice-Information	Grouped
	S-Information	Grouped
	eserved	-
	IS-Information	Grouped
	MS-Information	Grouped
	CS-Information CS-Information	Grouped
879 Pc	oC-Information	Grouped
	BMS-Information	Grouped
	uota-Consumption-Time	Unsigned32
	edia-Initiator-Flag	Enumerated
	oC-Server-Role	Enumerated
	oC-Session-Type	Enumerated
	umber-Of-Participants	Unsigned32
	riginator-Address	Grouped
	articipants-Involved	UTF8String
888 Ex		Unsigned32
	essage-Body	Grouped
	eserved	-
	eserved	-
	eserved	-
552 111		

893 Reserved	-	
894 Reserved	-	
895 Reserved	-	
896 Reserved	-	
897 Address-Data	UTF8String	
898 Address-Domain	Grouped	
899 Address-Type	Enumerated	
900 TMGI	OctectString	
901 Required-MBMS-Bearer-Capabilities	UTF8String	
902 MBMS-StartStop-Indication	Enumerated	
903 MBMS-Service-Area	OctectString	
904 MBMS-Session-Duration	Unsigned32	
905 Alternative-APN	UTF8String	
906 MBMS-Service-Type	Enumerated	
907 MBMS-2G-3G-Indicator	Enumerated	
908 MBMS-Session-Identity	OctetString	
909 RAI	UTF8String	
910 Additional-MBMS-Trace-Info	OctetString	
911 MBMS-Time-To-Data-Transfer	Unsigned32	
912 MBMS-Session-Identity-Repetition-Number	Unsigned32	
913 MBMS-Required-QoS	UTF8String	
914 MBMS-Counting-Information	Enumerated	
915 MBMS-User-Data-Mode-Indication	Enumerated	
916 MBMS-GGSN-Address	UTF8String	00.004
917 MBMS-GGSN-IPv6-Address	UTF8String	29.061
918 MBMS-BMSC-SSM-IP-Address	UTF8String	[13]
919 MBMS-BMSC-SSM-IPv6-Address	UTF8String	
920 MBMS-Flow-Identifier	OctetString	
921 CN-IP-Multicast-Distribution	Enumerated	
922 MBMS-HC-Indicator	Enumerated	
923 MBMS-Access-Indicator	Enumerated	
924 MBMS-GW-SSM-IP-Address	OctetString	
925 MBMS-GW-SSM-IPv6-Address	OctetString	
926 MBMS-BMSC-SSM-UDP-Port	OctetString	
927 MBMS-GW-UDP-Port	OctetString	
928 MBMS-GW-UDP-Port-Indicator	Enumerated	
929 MBMS-Data-Transfer-Start	Unsigned64	
930 MBMS-Data-Transfer-Stop	Unsigned64	
931 MBMS-Flags	Unsigned32	
932 Restart-Counter	Unsigned32	
933 Diagnostic-Info	Unsigned32	
934 MBMS-Cell-List	OctetString	
Note: The AVP codes from 935 to 999 are reserved for		
1000 Bearer-Usage	Enumerated Enumerated	
1001 Charging-Rule-Install	Grouped	
1002 Charging-Rule-Remove	Grouped	
1002 Charging-Rule-Remove  1003 Charging-Rule-Definition	Grouped	
1003 Charging-Rule-Base-Name	UTF8String	
1004 Charging-Rule-Base-Name	OctetString	
1005 Charging-Rule-Name 1006 Event-Trigger	Enumerated	
1007 Metering-Method	Enumerated Enumerated	
1008 Offline	Enumerated	
1009 Online	Enumerated 22 20 242 (4.0)	
1010 Precedence	Unsigned32 29.212 [19]	
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 1028 QoS-Class-Identifier	Enumerated Enumerated
1029 QoS-Negotiation	Enumerated
1030 QoS-Upgrade	Enumerated
1031 Rule-Failure-Code	Enumerated
1032 RAT-Type	Enumerated
1033 Event-Report-Indication	Grouped
1034 Allocation-Retention-Priority	Grouped
1035 CoA-IP-Address	Address
1036 Tunnel-Header-Filter	IPFilterRule
1037 Tunnel-Header-Length	Unsigned32
1038 Tunnel-Information	Grouped
1039 CoA-Information	Grouped
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32
1041 APN-Aggregate-Max-Bitrate-UL	Unsigned32
1042 Revalidation-Time	Time
1043 Rule-Activation-Time	Time
1044 Rule-DeActivation-Time	Time
1045 Session-Release-Cause 1046 Priority-Level	Enumerated Unsigned32
1047 Pre-emption-Capability	Enumerated
1048 Pre-emption-Vulnerability	Enumerated
1049 Default-EPS-Bearer-QoS	Grouped
1050 AN-GW-Address	Address
1051 QoS-Rule-Install	Grouped
1052 QoS-Rule-Remove	Grouped
1053 QoS-Rule-Definition	Grouped
1054 QoS-Rule-Name	OctetString
1055 QoS-Rule-Report	Grouped
1056 Security-Parameter-Index	OctetString
1057 Flow-Label	OctetString
1058 Flow-Information	Grouped
1059 Packet-Filter-Content	IPFilterRule
1060 Packet-Filter-Identifier 1061 Packet-Filter-Information	OctetString
	Grouped
1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification	Enumerated Enumerated
1064 Session-Linking-Indicator	Enumerated
1065 PDN-Connection-ID	OctetString
1066 Monitoring-Key	OctetString
1067 Usage-Monitoring-Information	Grouped
1068 Usage-Monitoring-Level	Enumerated
1069 Usage-Monitoring-Report	Enumerated
1070 Usage-Monitoring-Support	Enumerated
1071 CSG-Information-Reporting	Enumerated
1072 Packet-Filter-Usage	Enumerated
1073 Charging-Correlation-Indicator	Enumerated
1074 QoS-Rule-Base-Name	UTF8String
1075 Routing-Rule-Remove	Grouped
1076 Routing-Rule-Definition	Grouped
1077 Routing-Rule-Identifier	OctetString
1078 Routing-Filter	Grouped
1079 Routing-IP-Address 1080 Flow-Direction	Address
1080 Flow-Direction 1081 Routing-Rule-Install	Enumerated 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		
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 Unsigned32	
1107 Sequence-Number 1108 Recipient-Address	UTF8String	
		20 140 [16]
1109 Routeing-Address 1110 Originating-Interface	UTF8String Enumerated	29.140 [16]
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key	UTF8String	
1115 Billing-Information	UTF8String	
1116 Status	Grouped	
1117 Status-Code	UTF8String	
1118 Status-Text	UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140		
1200 Domain-Name	UTF8String	
1201 Recipient-Address	Grouped	
1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size	Unsigned32	
1207 Additional-Content-Information	Grouped	
1208 Addressee-Type	Enumerated	
1209 Priority	Enumerated	
1210 Message-ID	UTF8String Enumerated	
1211 Message-Type 1212 Message-Size	Unsigned32	
1213 Message-Class	Grouped	
1214 Class-Identifier	Enumerated	
1215 Token-Text	UTF8String	
1216 Delivery-Report-Requested	Enumerated	
1217 Adaptations	Enumerated	32.299 [5]
1218 Applic-ID	UTF8String	
1219 Aux-Applic-Info	UTF8String	
1220 Content-Class	Enumerated	
1221 DRM-Content	Enumerated	
1222 Read-Reply-Report-Requested	Enumerated	
1223 Reply-Applic-ID	UTF8String	
1224 File-Repair-Supported	Enumerated	
1225 MBMS-User-Service-Type	Enumerated	
1226 Unit-Quota-Threshold	Unsigned32	
1227 PDP-Address	Address	
1228 SGSN-Address	Address	
1229 PoC-Session-Id	UTF8String	
1230 Deferred-Location-Even-Type	UTF8String	
1231 LCS-APN	UTF8String	
1232 LCS-Client-Id 1233 LCS-Client-Dialed-By-MS	Grouped UTF8String	

1224 LCC Client External ID	LITEOCtring	
1234 LCS-Client-External-ID	UTF8String	
1235 LCS-Client-Name	Grouped	
1236 LCS-Data-Coding-Scheme	UTF8String	
1237 LCS-Format-Indicator	Enumerated	
1238 LCS-Name-String	UTF8String	
1239 LCS-Requestor-Id	Grouped	
1240 LCS-Requestor-Id-String	UTF8String	
1241 LCS-Client-Type	Enumerated	
1242 Location-Estimate	OctetString	
1243 Location-Estimate-Type	Enumerated	
1244 Location-Type	Grouped	
1245 Positioning-Data	UTF8String	
1246 Reserved	-	
1247 PDP-Context-Type	Enumerated	
1248 MMBox-Storage-Requested	Enumerated	
1249 Service-Specific-Info	Grouped	
1250 Called-Asserted-Identity	UTF8String	
1251 Requested-Party-Address	UTF8String	
1252 PoC-User-Role	Grouped	
1253 PoC-User-Role-IDs	UTF8String	
1254 PoC-User-Role-info-Units	Enumerated	
1255 Talk-Burst-Exchange	Grouped	
1256 Service-Generic-Information	Grouped	
1257 Service-Specific-Type	Unsigned32	
1258 Event-Charging-TimeStamp	Time	
1259 Participant-Access-Priority	Enumerated	
1260 Participant-Group	Grouped	
1261 PoC-Change-Conditions	Enumerated	
1262 PoC-Change-Time	Time	
1263 Access-Network-Information	OctetString	
1264 Trigger	Grouped	
1265 Base-Time-Interval	Unsigned32	
1266 Envelope	Grouped	
1267 Envelope-End-Time	Time	
1268 Envelope-Reporting	Enumerated	
1269 Envelope-Start-Time	Time	
1270 Time-Quota-Mechanism	Grouped	
1271 Time-Quota-Type	Enumerated	
1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps	Grouped	
1274 SDP-0ffer-Timestamp	Time	
1275 SDP-Answer-Timestamp	Time	
1276 AF-Correlation-Information	Grouped	
1277 PoC-Session-Initiation-type 1278 Offline-Charging	Enumerated	
	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299		
1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	
1403 Software-Version	UTF8String	
1404 QoS-Subscribed	UTF8String	29.272 [21]
1405 ULR-Flags	Unsigned32	
1406 ULA-Flags	Unsigned32	
1406 ULA-Flags 1407 Visited PLMN Id		
	Unsigned32 OctetString Grouped	

1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped
1410 Number-Of-Requested-Vectors	Unsigned32
1411 Re-Synchronization-Info	OctetString
1412 Immediate-Response-Preferred	Unsigned32
1413 Authentication-Info	Grouped
1414 E-UTRAN-Vector	Grouped
1415 UTRAN-Vector	Grouped
1416 GERAN-Vector	Grouped
1417 Network-Access-Mode	Enumerated
1418 HPLMN-ODB	Enumerated
1419 Item-Number	Unsigned32
1420 Cancellation-Type	Enumerated
1421 DSR-Flags	Unsigned32
1422 DSA-Flags	Unsigned32
1423 Context-Identifier	Unsigned32
1424 Subscriber-Status	Enumerated
1425 Operator-Determined-Barring	Unsigned32
1426 Access-Restriction-Data	UTF8String
1427 APN-OI-Replacement	UTF8String
1428 All-APN-Configurations-Included-Indicator	Enumerated
1429 APN-Configuration-Profile	Grouped
1430 APN-Configuration	Grouped
1431 EPS-Subscribed-QoS-Profile	Grouped
1431 VPLMN-Dynamic-Address-Allowed	Enumerated
1433 STN-SR	OctetString
1433 STN-SK 1434 Alert-Reason	Enumerated
1435 AMBR	
	Grouped
1436 CSG-Subscription-Data	Grouped
1437 CSG-Id	Unsigned32
1438 PDN-GW-Allocation-Type	Enumerated
1439 Expiration-Date	Time
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32
1441 IDA-Flags	Unsigned32
1442 PUA-Flags	Unsigned32
1443 NOR-Flags	Unsigned32
1444 User-Id	UTF8String
1445 Equipment-Status	Enumerated
1446 Regional-Subscription-Zone-Code	OctetString
1447 RAND	OctetString
1448 XRES	OctetString
1449 AUTN	OctetString
1450 KASME	OctetString
1451 Reserved	-
1452 Trace-Collection-Entity	Address
1453 Kc	OctetString
1454 SRES	OctetString
1455 Reserved	-
1456 PDN-Type	Enumerated
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated
1458 Trace-Data	Grouped
1459 Trace-Reference	OctetString
1460 Reserved	-
1461 Reserved	-
1462 Trace-Depth	Enumerated
1463 Trace-NE-Type-List	OctetString
1464 Trace-Interface-List	OctetString
1465 Trace-Event-List	OctetString
1466 OMC-Id	OctetString
1466 GMC-1d 1467 GPRS-Subscription-Data	Grouped
1467 GPRS-Subscription-Data 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

4 474 OMLO Niumbor	O at at Cturina m		
1474 GMLC-Number	OctetString	-	
1475 LCS-PrivacyException	Grouped		
1476 SS-Code	OctetString		
1477 SS-Status	OctetString	1	
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		
1486 Teleservice-List	Grouped	1	
1487 TS-Code	Enumerated	1	
1488 Call-Barring-Info	Grouped	1	
1489 SGSN-Number	OctetString	1	
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	<u> </u>	
1495 EPS-User-State	Grouped	]	
1496 EPS-Location-Information	Grouped	]	
1497 MME-User-State	Grouped	]	
1498 SGSN-User-State	Grouped	]	
1499 User-State	Enumerated	]	
	•		
1500 Non-3GPP-User-Data	Grouped		
1501 Non-3GPP-IP-Access	Enumerated	1	
1502 Non-3GPP-IP-Access-APN	Enumerated	1	
1503 AN-Trusted	Enumerated	1	
1504 ANID	UTF8String	-	
1505 Trace-Info		-	
	Grouped	-	
1506 MIP-FA-RK	OctetString	-	
1507 MIP-FA-RK-SPI	Unsigned32		
1508 PPR-Flags	Unsigned32		
1509 WLAN-Identifier	Grouped		
1510 TWAN-Access-Info	Grouped		
1511 Access-Authorization-Flags	Unsigned32		
1512 TWAN-Default-APN-Context-Id	Unsigned32		
1513 Reserved	-		
1514 Reserved	-	00 070 [00]	
1515 Reserved	-	29.273 [20]	
1516 Full-Network-Name	OctetString	1	
1517 Short-Network-Name	OctetString	1	
1518 AAA-Failure-Indication	Unsigned32	1	
1519 Transport-Access-Type	Enumerated	1	
1520 DER-Flags	Unsigned32		
1521 DEA-Flags		·	
	Unsigned32		
1522 RAR-Flags	Unsigned32		
1523 DER-S6b-Flags	Unsigned32		
1524 SSID	UTF8String	<u> </u>	
1525 HESSID	UTF8String	]	
1526 Access-Network-Info	Grouped	]	
1527 TWAN-Connection-Mode	Unsigned32	]	
1528 TWAN-Connectivity-Parameters	Grouped	]	
1529 Connectivity-Flags	Unsigned32		
1530 TWAN-PCO	OctetS	tring	
1531 TWAG-CP-Address	Addre		
T153ZTTWAG-UP-Address	LITERS		
1532 TWAG-UP-Address 1533 TWAN-S2a-Failure-Cause	UTF8S		
1533 TWAN-S2a-Failure-Cause	Unsigne	ed32	
1533 TWAN-S2a-Failure-Cause 1534 SM-Back-Off-Timer	Unsigne Unsigne	ed32 ed32	
1533 TWAN-S2a-Failure-Cause 1534 SM-Back-Off-Timer 1535 WLCP-Key	Unsigne Unsigne OctetS	ed32 ed32 tring	
1533 TWAN-S2a-Failure-Cause 1534 SM-Back-Off-Timer	Unsigne Unsigne	ed32 ed32 tring dentity	

4507 Marriage Mark Time	Line sinone di OO	1
1537 Maximum-Wait-Time 1538 Emergency-Services	Unsigned32 Unsigned32	+
1539 AAR-Flags	Unsigned32	+
1540 IMEI-Check-In-VPLMN-Result	Unsigned32	+
1541 ERP-Authorization	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 3		GPP 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 1606 Location-Area-Identity	OctetString OctetString	-
1607 Service-Area-Identity	OctetString	+
1608 Geographical-Information	OctetString	
1609 Geodetic-Information	OctetString	+
1610 Current-Location-Retrieved	Enumerated	†
1611 Age-Of-Location-Information	Unsigned32	
1612 Active-APN	Grouped	1
1613 SIPTO-Permission	Enumerated	1
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	4
1620 Ext-PDP-Type 1621 Ext-PDP-Address	OctetString 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	00.070
1628 Report-Amount	Enumerated	29.272
1629 Event-ThresholdRSRP	Unsigned32	[21]
1630 Event-ThresholdRSRQ	Unsigned32	
1631 Logging-Interval	Enumerated	_
1632 Logging-Duration	Enumerated	_
1633 Relay-Node-Indicator	Enumerated	4
1634 MDT-User-Consent	Enumerated	4
1635 PUR-Flags 1636 Subscribed-VSRVCC	Unsigned32 Enumerated	+
1637 Equivalent-PLMN-List	Grouped	+
1638 CLR-Flags	Unsigned32	+
1639 UVR-Flags	Unsigned32	+
1640 UVA-Flags	Unsigned32	†
1641 VPLMN-CSG-Subscription-Data	Grouped	1
1642 Time-Zone	UTF8String	1
1643 A-MSISDN	OctetString	1
1644 Reserved	-	
1645 MME-Number-for-MT-SMS	OctetString	
1646 Reserved	-	4
1647 Reserved		4
1648 SMS-Register-Request	Enumerated	4
1649 Local-Time-Zone	Grouped	+
1650 Daylight-Saving-Time 1651 GMLC-Info	Enumerated Grouped	+
1651 GMLC-Inio	DiameterIdentity	+
1653 GMLC-Name	DiameterIdentity	+
1654 Subscription-Data-Flags	Unsigned32	†
1655 Measurement-Period-LTE	Enumerated	†
1656 Measurement-Period-UMTS	Enumerated	7
		•

1057 O # # D : 1 DDI 1 TE		
1657 Collection-Period-RRM-LTE	Enumerated	1
1658 Collection-Period-RRM-UMTS	Enumerated	1
1659 Positioning-Method	OctetString	1
1660 Measurement-Quantity	OctetString	1
1661 Event-Threshold-Event-1F	Integer32	1
1662 Event-Threshold-Event-1I	Integer32	
1663 Restoration-Priority	Unsigned32	1
1664 SGs-MME-Identity	UTF8String	†
1665 SIPTO-Local-Network-Permission	Unsigned32	†
1666 Coupled-Node-Diameter-ID	DiameterIdentity	†
1667 WLAN-offloadability	Grouped	†
		4
1668 WLAN-offloadability-EUTRAN	Unsigned32	1
1669 WLAN-offloadability-UTRAN	Unsigned32	1
1670 Reset-ID	OctetString	1
1671 MDT-Allowed-PLMN-Id	OctetString	
1672 Adjacent-PLMNs	Grouped	
1673 Adjacent-Access-Restriction-Data	Grouped	
1674 DL-Buffering-Suggested-Packet-Count	Integer32	1
1675 IMSI-Group-Id	Grouped	†
1676 Group-Service-Id	Unsigned32	†
1677 Group-PLMN-Id	OctetString	1
1678 Local-Group-Id		†
	OctetString	+
1679 AIR-Flags	Unsigned32	1
1680 UE-Usage-Type	Unsigned32	<u> </u>
1681 Non-IP-PDN-Type-Indicator	Enumerated	1
1682 Non-IP-Data-Delivery-Mechanism	Unsigned32	
1683 Additional-Context-Identifier	Unsigned32	
1684 SCEF-Realm	DiameterIdentity	Ī
1685 Subscription-Data-Deletion	Grouped	†
1686 Preferred-Data-Mode	Unsigned32	†
1687 Emergency-Info	Grouped	†
1688 V2X-Subscription-Data	Grouped	+
		1
1689 V2X-Permission	Unsigned32	1
1690 PDN-Connection-Continuity	Unsigned32	1
1691 eDRX-Cycle-Length	Grouped	1
1692 eDRX-Cycle-Length-Value	OctetString	1
1693 UE-PC5-AMBR	Unsigned32	
1694 MBSFN-Area	Grouped	Ī
1695 MBSFN-Area-ID	Unsigned32	†
1696 Carrier-Frequency	Unsigned32	†
1697 RDS-Indicator	Enumerated	†
Note: The AVP codes from 1698 to 1699 are reserved for TS 29.272.	Litamerated	l
	0	
2000 SMS-Information	Grouped	1
2001 Data-Coding-Scheme	Integer32	1
2002 Destination-Interface	Grouped	1
2003 Interface-Id	UTF8String	]
2004 Interface-Port	UTF8String	1
2005 Interface-Text	UTF8String	Ī
2006 Interface-Type	Enumerated	1
2007 SM-Message-Type	Enumerated	†
2008 Originating-SCCP-Address	Address	†
2009 Originator-Interface		†
	Grouped	+
2010 Recipient-SCCP-Address	Address	00.000 :==
2011 Reply-Path-Requested	Enumerated	32.299 [5]
2012 SM-Discharge-Time	Time	1
2013 SM-Protocol-ID	OctetString	]
2014 SM-Status	OctetString	1
2015 SM-User-Data-Header	OctetString	Ī
2016 SMS-Node	Enumerated	†
2017 SMSC-Address	Address	†
LA CALLA DE DIVINIO CENCICIENTO		†
	Λddraee	i .
2018 Client-Address	Address	1
2018 Client-Address 2019 Number-of-Messages-Sent	Unsigned32	† †
2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication	Unsigned32 Enumerated	† 
2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance	Unsigned32 Enumerated Grouped	†   
2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication	Unsigned32 Enumerated	

2023   Carrier-Select-Routing-Information			1
2025   Foc-Event-Type			<u> </u>
2026   Recipient-Info	2024 Number-Portability-Routing-Information	UTF8String	
2027   Originator-Received-Address   Grouped   2028   Recipient-Received-Address   Grouped   2028   Recipient-Received-Address   Grouped   2029   SM-Service-Type   Enumerated   2030   MMTel-Information   Grouped   2031   Sim-Information   Grouped   2032   Service-Wide   Unsigned32   2032   Service-Wide   Unsigned32   2033   Subscriber-Role   Enumerated   2033   Subscriber-Role   Enumerated   2034   Number-O-Deversions   Unsigned32   2035   Subscriber-Role   Enumerated   2036   Sim-O-Deversions   Unsigned32   2036   Sim-O-Deversions   Unsigned32   2036   Sim-O-Deversions   Unsigned32   2037   Change-Condition   Integer/32   2038   Sign-O-Deversions   Unsigned32   2039   Diagnostic   Sim-O-Deversions   Integer/32   2039   Diagnostic   Sim-O-Deversions   Integer/32   2040   Sim-O-Deversions   Integer/32   2041   Sim-Time   Time   2042   Sim-First-Usage   Time   2043   Time-Inst-Usage   Time   2044   Time-Last-Usage   Time   2045   Time-Usage   Unsigned32   2046   Time-Usage   Unsigned32   2046   Time-Usage   Grouped   2047   Serving-Node-Type   Enumerated   2048   Supplementary-Service   Grouped   2049   Participant-Action-Type   Enumerated   2050   PDN-Connection-Charging-ID   Unsigned32   2051   Oyanni-Address-Rag   Enumerated   2052   Accumulated-Cost   Grouped   2053   Ac-Cost-Information   Grouped   2054   Accumulated-Cost   Grouped   2055   Ac-Request-Type   Enumerated   2056   Ac-Request-Type   Enumerated   2057   Rest-Tariff   Grouped   2058   Scale-Factor   Grouped   2059   Charging-Characteristic-Selection-Mode   Enumerated   2060   Original-Cost   Grouped   2061   Original-Cost   Grouped   2062   Diagnost-Action-Session-ID   Unsigned32   2063   Original-Cost   Grouped   2064   Diagnost-Action-Session-ID   Unsigned32   2074   Reserved	2025 PoC-Event-Type	Enumerated	
2027   Originator-Received-Address   Grouped   2028   Recipient-Received-Address   Grouped   2028   Recipient-Received-Address   Grouped   2029   SM-Service-Type   Enumerated   2030   MMTel-Information   Grouped   2031   Sim-Information   Grouped   2032   Service-Wide   Unsigned32   2032   Service-Wide   Unsigned32   2033   Subscriber-Role   Enumerated   2033   Subscriber-Role   Enumerated   2034   Number-O-Deversions   Unsigned32   2035   Subscriber-Role   Enumerated   2036   Sim-O-Deversions   Unsigned32   2036   Sim-O-Deversions   Unsigned32   2036   Sim-O-Deversions   Unsigned32   2037   Change-Condition   Integer/32   2038   Sign-O-Deversions   Unsigned32   2039   Diagnostic   Sim-O-Deversions   Integer/32   2039   Diagnostic   Sim-O-Deversions   Integer/32   2040   Sim-O-Deversions   Integer/32   2041   Sim-Time   Time   2042   Sim-First-Usage   Time   2043   Time-Inst-Usage   Time   2044   Time-Last-Usage   Time   2045   Time-Usage   Unsigned32   2046   Time-Usage   Unsigned32   2046   Time-Usage   Grouped   2047   Serving-Node-Type   Enumerated   2048   Supplementary-Service   Grouped   2049   Participant-Action-Type   Enumerated   2050   PDN-Connection-Charging-ID   Unsigned32   2051   Oyanni-Address-Rag   Enumerated   2052   Accumulated-Cost   Grouped   2053   Ac-Cost-Information   Grouped   2054   Accumulated-Cost   Grouped   2055   Ac-Request-Type   Enumerated   2056   Ac-Request-Type   Enumerated   2057   Rest-Tariff   Grouped   2058   Scale-Factor   Grouped   2059   Charging-Characteristic-Selection-Mode   Enumerated   2060   Original-Cost   Grouped   2061   Original-Cost   Grouped   2062   Diagnost-Action-Session-ID   Unsigned32   2063   Original-Cost   Grouped   2064   Diagnost-Action-Session-ID   Unsigned32   2074   Reserved	2026 Recipient-Info	Grouped	1
2028   Recipient-Received-Address   Grouped   2029   SM-Service-Type   Enumerated   2030   MMTel-Information   Grouped   2031   MMTel-Information   Grouped   2032   Service-Mode   Unsigned32   2032   Service-Mode   Unsigned32   2033   Subscriber-Role   Enumerated   2034   Number-Of-Diversions   Unsigned32   2036   Sasoniatel-Party-Address   UTF8String   2036   SDP-Type   Enumerated   2037   Change-Condition   Integer2   2038   Daylogacie   Time   Time   2039   Diagnostics   Integer2   2039   Diagnostics   Integer2   2039   Diagnostics   Integer2   2030   Stavoic-Date-Container   Grouped   2041   Start-Time   Time   2042   Stop-Time   Time   2043   Stop-Time   Time   2044   Stop-Time   Time   2045   Time-Inst-Usage   Time   2046   Time-Last-Usage   Time   2047   String-Node-Type   Enumerated   2048   Time-Inst-Usage   Time   2049   Time-Inst-Usage   Time   2041   Start-Time   Time   2042   Time-Inst-Usage   Time   2043   Time-Inst-Usage   Time   2044   String-Node-Type   Enumerated   2045   Time-Inst-Usage   Time   2046   Time-Inst-Usage   Time   2047   Serving-Node-Type   Enumerated   2048   Participant-Action-Type   Enumerated   2049   Participant-Action-Type   Enumerated   2050   Dynamic-Address-Flag   Enumerated   2051   Dynamic-Address-Flag   Enumerated   2052   Accondition-Charging-ID   Unsigned32   2052   Accondition-Charging-ID   Unsigned32   2053   Accode-Information   Grouped   2054   Acc-Information   Grouped   2055   Acc-Information   Grouped   2056   Acc-Information   Grouped   2057   Acc-Information   Grouped   2058   Rate-Element   Grouped   2059   Consent-Tariff   Grouped   2050   Consent-Tariff   Grouped   2051   Dynamic-Address-Flag-Extension   Grouped   2052   Acc-Information   Grouped   2053   Consent-Tariff   Grouped   2054   Acc-Information   Grouped   2055   Consent-Tariff   Grouped   2056   Consent-Consent-Selection-Mode   Enumerated   2057   Consent-Consent-Selection-Mode   Enumerated   2058   Dynamic-Address-Flag-Extension   Grouped   2059   Dynamic-Address-Flag-Extension   Grouped			
			ł
2030 MMTel-Information   Grouped   2031 MMTel-Information   Grouped   2032 Service-Mode			<u> </u>
2031 MMTel-Sservice-Type			1
2032   Service-Mode			
2032   Service-Mode	2031 MMTel-Sservice-Type	Unsigned32	
2033 Subscriber-Role	2032 Service-Mode		1
2034   Number-Of-Diversions			†
2035 Associated-Party-Address			+
2036 SDP-Type			<u> </u>
2038   Change-Condition			1
2038   Change-Time   Time   Time   2039   Diagnostics   Integer32   2040   Service-Data-Container   Grouped   2041   Start-Time   Time   Time   2043   Time-First-Usage   Time   Time   2043   Time-First-Usage   Time   2044   Time-Last-Usage   Time   2045   Time-Usage   Time   2046   Time-Usage   Unsigned32   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   2050   PDN-Connection-Charging-ID   Unsigned32   2051   Dynamic-Address-Flag   Enumerated   2053   AOC-Cost-Information   Grouped   2054   AOC-Information   Grouped   2055   AOC-Request-Type   Enumerated   2056   AOC-Request-Type   Enumerated   2056   AOC-Request-Type   Enumerated   2057   Next-Tariff   Grouped   2058   AOC-Request-Type   Grouped   2058   AOC-Request-Type   Enumerated   2059   Enumerated   2059   2	2036 SDP-Type	Enumerated	
2038   Change-Time   Time   Time   2039   Diagnostics   Integer32   2040   Service-Data-Container   Grouped   2041   Start-Time   Time   Time   2043   Time-First-Usage   Time   Time   2043   Time-First-Usage   Time   2044   Time-Last-Usage   Time   2045   Time-Usage   Time   2046   Time-Usage   Unsigned32   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   2050   PDN-Connection-Charging-ID   Unsigned32   2051   Dynamic-Address-Flag   Enumerated   2053   AOC-Cost-Information   Grouped   2054   AOC-Information   Grouped   2055   AOC-Request-Type   Enumerated   2056   AOC-Request-Type   Enumerated   2056   AOC-Request-Type   Enumerated   2057   Next-Tariff   Grouped   2058   AOC-Request-Type   Grouped   2058   AOC-Request-Type   Enumerated   2059   Enumerated   2059   2	2037 Change-Condition	Integer32	Ī
Diagnostics			†
2040   Service-Data-Container   Grouped			+
2041   Start-Time			1
2042   Stop-Time			1
Description	2041 Start-Time	Time	
Description	2042 Stop-Time	Time	
Time			†
2045   Time-Usage			†
2046   Traffic-Data-Volumes   Grouped			+
Serving-Node-Type			4
2048   Supplementary-Service   Grouped			1
2048   Supplementary-Service   Grouped	2047 Serving-Node-Type	Enumerated	
Participant-Action-Type		Grouped	]
Description			†
Dynamic-Address-Flag			+
2052   Accumulated-Cost   Grouped   2053   AcC-Cost-Information   Grouped   2054   AcC-Information   Grouped   2055   AcC-Information   Grouped   2056   AcC-Information   Grouped   2057   Next-Tariff   Grouped   2058   Rate-Element   Grouped   2059   Rate-Element   Grouped   2059   Scale-Factor   Grouped   2060   Tariff-Information   Grouped   2061   Unit-Cost   Grouped   2062   Incremental-Cost   Grouped   2063   Local-Sequence-Number   Unsigned32   2064   Node-Id   UTF8String   2065   SGW-Change   Enumerated   2066   Charging-Characteristic-Selection-Mode   Enumerated   2067   SGW-Address   Address   2068   Dynamic-Address-Flag-Extension   Enumerated   2069   Sqw-Address-Flag-Extension   Enumerated   2010   reserved   -			1
2053   AoC-Cost-Information   Grouped   2054   AoC-Information   Grouped   2055   AoC-Request-Type   Enumerated   2056   Corrent-Tariff   Grouped   2057   Next-Tariff   Grouped   2058   Rate-Element   Grouped   2059   Scale-Factor   Grouped   2050   Tariff-Information   Grouped   2051   Online Cost   Grouped   2052   Incremental-Cost   Grouped   2053   Incremental-Cost   Grouped   2054   Incremental-Cost   Grouped   2055   AoC-Sequence-Number   Unsigned32   2056   SGW-Change   Enumerated   2056   SGW-Change   Enumerated   2057   SGW-Address   Address   2058   Dynamic-Address-Flag-Extension   Enumerated   2059   Sour-Cost   Grouped   2061   Units   2062   Incremental-Cost   Unsigned32   2063   Tariff-Information   Unsigned32   2064   Node-Id   UTF8String   2065   SGW-Change   Enumerated   2066   Dynamic-Address-Flag-Extension   Enumerated   2067   SGW-Address   Address   2068   Dynamic-Address-Flag-Extension   Enumerated   2070   Incremental   UTF8String   2070   Incremental   UTF8String   2070   Application-Service-Type   Enumerated   2071   Application-Service-Type   Enumerated   2072   Application-Service-Type   Enumerated   2073   Application-Service-Type   Enumerated   2074   Delivery-Status   UTF8String   2075   reserved     2076   reserved     2077   reserved     2078   reserved     2079   reserved     2070   reserved     2070   reserved     2070   reserved     2071   IM-Information   Grouped   2071   Number-Of-Messages-Successfully-Exploded   Unsigned32   2071   Total-Number-Of-Messages-Sent   Unsigned32   2072   Unstantified   U			1
2054   AoC-Information	2052 Accumulated-Cost	Grouped	
2054   AoC-Information	2053 AoC-Cost-Information	Grouped	Ī
2055   AoC-Request-Type			Ť
2056   Current-Tariff   Grouped   2057   Next-Tariff   Grouped   2058   Rate-Element   Grouped   2059   Scale-Factor   Grouped   2050   Scale-Factor   Grouped   2060   Tariff-Information   Grouped   2061   Unit-Cost   Grouped   2062   Incremental-Cost   Grouped   2063   Local-Sequence-Number   Unsigned32   2064   Node-Id   UTF8String   2065   SGW-Change   Enumerated   2066   Charging-Characteristic-Selection-Mode   Enumerated   2067   SGW-Address   Address   2068   Dynamic-Address-Flag-Extension   Enumerated   2069   Som-Address-Flag-Extension   Enumerated   2060   Property   Property   2061   Application-Server-ID   UTF8String   2062   Application-Service-Type   Enumerated   2063   Application-Service-Type   Enumerated   2064   Application-Service-Type   Enumerated   2065   Application-Service-Type   Enumerated   2066   Charging-Characteristic-Selection-Mode   Enumerated   2067   SGW-Address   Address   2068   Dynamic-Address-Flag-Extension   Enumerated   2070   Inserved   -			†
2057   Next-Tariff			}
2058   Rate-Element   Grouped   2059   Scale-Factor   Grouped   2060   Tariff-Information   Grouped   2061   Unit-Cost   Grouped   2062   Incremental-Cost   Grouped   2063   Local-Sequence-Number   Unsigned32   2064   Node-Id   UTF8String   2065   SGW-Change   Enumerated   2066   Charging-Characteristic-Selection-Mode   Enumerated   2067   SGW-Address   Address   2068   Dynamic-Address-Flag-Extension   Enumerated   2069   Sgw-Change   Enumerated   2060   Sgw-Chaddress   Address   2060   Dynamic-Address-Flag-Extension   Enumerated   2061   Tensor   Tensor   2062   Sgw-Change   Enumerated   2063   Dynamic-Address-Flag-Extension   Enumerated   2064   Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.   2100   reserved   -			1
2059   Scale-Factor   Grouped			<u> </u>
2060   Tariff-Information   Grouped	2058 Rate-Element	Grouped	
2060   Tariff-Information   Grouped	2059 Scale-Factor	Grouped	Ī
Description			
Delivery-Status   Unsigned   Unsigned   Unsigned   Unsigned   Unsigned   Unsigned   Unsigned   Unsigned   Unsigned   UTF8   Unsigned   Unsign			ł
2063   Local-Sequence-Number   Unsigned32			1
2064   Node-Id			1
2065         SGW-Change         Enumerated           2066         Charging-Characteristic-Selection-Mode         Enumerated           2067         SGW-Address         Address           2068         Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           21001         reserved         -           2101         Application-Server-ID         UTF8String           2102         Application-Service-Type         Enumerated           2103         Application-Session-ID         Unsigned32           2104         Delivery-Status         UTF8String           2105         reserved         -           2106         reserved         -           2107         reserved         -           2108         reserved         -           2109         reserved         -           2110         IM-Information         Grouped           2111         Number-Of-Messages-Successfully-Exploded         Unsigned32           2112         Number-Of-Messages-Successfully-Sent         Unsigned32           2113         Total-Number-Of-Messages-Sent         Unsigned32           2114         Total-Number-Of-Messages-Sent	2063 Local-Sequence-Number	Unsigned32	1
2065         SGW-Change         Enumerated           2066         Charging-Characteristic-Selection-Mode         Enumerated           2067         SGW-Address         Address           2068         Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           21001         reserved         -           2101         Application-Server-ID         UTF8String           2102         Application-Service-Type         Enumerated           2103         Application-Session-ID         Unsigned32           2104         Delivery-Status         UTF8String           2105         reserved         -           2106         reserved         -           2107         reserved         -           2108         reserved         -           2109         reserved         -           2110         IM-Information         Grouped           2111         Number-Of-Messages-Successfully-Exploded         Unsigned32           2112         Number-Of-Messages-Successfully-Sent         Unsigned32           2113         Total-Number-Of-Messages-Sent         Unsigned32           2114         Total-Number-Of-Messages-Sent	2064 Node-Id	UTF8String	
2066         Charging-Characteristic-Selection-Mode         Enumerated           2067         SGW-Address         Address           2068         Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100         reserved         -           2101         Application-Server-ID         UTF8String           2102         Application-Service-Type         Enumerated           2103         Application-Session-ID         Unsigned32           2104         Delivery-Status         UTF8String           2105         reserved         -           2106         reserved         -           2107         reserved         -           2108         reserved         -           2109         reserved         -           2110         IM-Information         Grouped           2111         Number-Of-Messages-Successfully-Exploded         Unsigned32           2113         Total-Number-Of-Messages-Exploded         Unsigned32           2114         Total-Number-Of-Messages-Sent         Unsigned32           2115         DCD-Information         Grouped           2116         Content-ID         UTF8Strin			1
2067         SGW-Address         Address           2068         Dynamic-Address-Flag-Extension         Enumerated           Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.         -           2100         reserved         -           2101         Application-Server-ID         UTF8String           2102         Application-Service-Type         Enumerated           2103         Application-Session-ID         Unsigned32           2104         Delivery-Status         UTF8String           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-Exploded         Unsigned32           2113         Total-Number-Of-Messages-Sent         Unsigned32           2115         DCD-Information         Grouped           2116         Content-ID         UTF8String			†
2068   Dynamic-Address-Flag-Extension   Enumerated			+
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.  2100 reserved			1
2100 reserved         -           2101 Application-Server-ID         UTF8String           2102 Application-Service-Type         Enumerated           2103 Application-Session-ID         Unsigned32           2104 Delivery-Status         UTF8String           2105 reserved         -           2106 reserved         -           2107 reserved         -           2108 reserved         -           2109 reserved         -           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		Enumerated	<u> </u>
2101 Application-Server-IDUTF8String2102 Application-Service-TypeEnumerated2103 Application-Session-IDUnsigned322104 Delivery-StatusUTF8String2105 reserved-2106 reserved-2107 reserved-2108 reserved-2109 reserved-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-IDUTF8String	Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.		_
2101 Application-Server-IDUTF8String2102 Application-Service-TypeEnumerated2103 Application-Session-IDUnsigned322104 Delivery-StatusUTF8String2105 reserved-2106 reserved-2107 reserved-2108 reserved-2109 reserved-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-IDUTF8String	2100 reserved	-	
2102Application-Service-TypeEnumerated2103Application-Session-IDUnsigned322104Delivery-StatusUTF8String2105reserved-2106reserved-2107reserved-2108reserved-2109reserved-2110IM-InformationGrouped2111Number-Of-Messages-Successfully-ExplodedUnsigned322112Number-Of-Messages-ExplodedUnsigned322113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String		LITE8String	†
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			†
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			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			1
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	2104 Delivery-Status	UTF8String	
2106 reserved         -           2107 reserved         -           2108 reserved         -           2109 reserved         -           2110 IM-Information         Grouped           2111 Number-Of-Messages-Successfully-Exploded         Unsigned32           2112 Number-Of-Messages-Successfully-Sent         Unsigned32           2113 Total-Number-Of-Messages-Exploded         Unsigned32           2114 Total-Number-Of-Messages-Sent         Unsigned32           2115 DCD-Information         Grouped           2116 Content-ID         UTF8String		-	]
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		_	†
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		-	†
2109reserved-2110IM-InformationGrouped2111Number-Of-Messages-Successfully-ExplodedUnsigned322112Number-Of-Messages-Successfully-SentUnsigned322113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String		-	1
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		-	32 299 [5]
2110IM-InformationGrouped2111Number-Of-Messages-Successfully-ExplodedUnsigned322112Number-Of-Messages-Successfully-SentUnsigned322113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String	2109 reserved	<u>-</u>	[02.233 [0]
2111Number-Of-Messages-Successfully-ExplodedUnsigned322112Number-Of-Messages-Successfully-SentUnsigned322113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String		Grouped	
2112Number-Of-Messages-Successfully-SentUnsigned322113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String			1
2113 Total-Number-Of-Messages-ExplodedUnsigned322114 Total-Number-Of-Messages-SentUnsigned322115 DCD-InformationGrouped2116 Content-IDUTF8String			†
2114 Total-Number-Of-Messages-SentUnsigned322115 DCD-InformationGrouped2116 Content-IDUTF8String			+
2115 DCD-Information Grouped 2116 Content-ID UTF8String			4
2116 Content-ID UTF8String			1
2116 Content-ID UTF8String			I
	2115 DCD-Information	Grouped	
2117   OTFOOTHING			
	2116 Content-ID	UTF8String	<u> </u>

2118 Charge-Reason-Code		Enumerated	
	to 2199 are reserved for TS 32.299.		I
2200 Subsession-Decision-Info		Grouped	
2201 Subsession-Enforcement-Ir	nfo	Grouped	
2202 Subsession-Id		Unsigned32	
2203 Subsession-Operation		Enumerated	00.045
2204 Multiple-BBERF-Action		Enumerated	29.215
2205 UE-Local-IPv6-Prefix		OctetString	[22]
2206 DRA-Deployment		Enumerated	
2207 PCRF-Address		DiameterIdentity	
2208 DRA-Binding		Enumerated	
	to 2299 are reserved for TS 29.215.		
2300 reserved		-	
2301 SIP-Request-Timestamp-Fi		Unsigned32	
2302 SIP-Response-Timestamp-	Fraction	Unsigned32	
2303 Online-Charging-Flag		Enumerated	
2304 CUG-Information		OctetString	
2305 Real-Time-Tariff-Informatio	n	Grouped	
2306 Tariff-XML		UTF8String	
2307 MBMS GW-Address		Address	
2308 IMSI-Unauthenticated-Flag		Enumerated	
2309 Account-Expiration		Time	
2310 AoC-Format		Enumerated	
2311 AoC-Service		Enumerated	32.299 [5]
2312 AoC-Service-Obligatory-Ty	pe	Grouped	J2.233 [J]
2313 AoC-Service-Type		Enumerated	
2314 AoC-Subscription-Informati	on	Grouped	
2315 Preferred-AoC-Currency		Unsigned32	
2316 Reserved		-	
2317 CSG-Access-Mode		Enumerated	
2318 CSG-Membership-Indicatio	n	Enumerated	
2319 User-CSG-Information		Grouped	
2320 Outgoing-Session-Id		UTF8String	
2321 Initial-IMS-Charging-Identifi	er	UTF8String	
2322 IMS-Emergency-Indicator		Enumerated	
2323 MBMS-Charged-Party		Enumerated	
	to 2399 are reserved for TS 32.299.	0-4-404	
2400 LMSI 2401 Serving-Node		OctetString Grouped	<del></del>
2401 Serving-Node 2402 MME-Name		DiameterIdentity	<del></del>
2403 MSC-Number		OctetString	<del> </del>
2404 LCS-Capabilities-Sets		Unsigned32	<del> </del>
2405 GMLC-Address		Address	20 172
2406 Additional-Serving-Node		Grouped	29.173
2407 PPR-Address		Address	[25]
2407 PPR-Address 2408 MME-Realm		DiameterIdentity	<del> </del>
2409 SGSN-Name		Diameteridentity  DiameterIdentity	<del> </del>
2410 SGSN-Realm		DiameterIdentity	<del> </del>
2411 RIA-Flags		Unsigned32	<del>-  </del>
	to 2499 are reserved for TS 29.173.	Onsignedoz	
2500 SLg-Location-Type	25 2 700 die 16361 ved 101 10 25.173.	Enumerated	
2501 LCS-EPS-Client-Name		Grouped	<del>-  </del>
2502 LCS-Requestor-Name		Grouped	<del>-  </del>
2503 LCS-Priority		Unsigned32	<del></del>
2504 LCS-QoS		Grouped	<del></del>
2505 Horizontal-Accuracy		Unsigned32	_
2506 Vertical-Accuracy		Unsigned32	_
2507 Vertical-Accuracy		Enumerated	29.172
2508 Velocity-Requested		Enumerated	[24]
2509 Response-Time		Enumerated	<del></del>
2510 Supported-GAD-Shapes		Unsigned32	_
2511 LCS-Codeword		UTF8String	_
2512 LCS-Privacy-Check		Enumerated	_
2513 Accuracy-Fulfilment-Indicat	or	Enumerated	_
2514 Age-Of-Location-Estimate		Unsigned32	<del>- </del>

		1
2515 Velocity-Estimate	OctetString	
2516 EUTRAN-Positioning-Data	OctetString	
2517 ECGI	OctetString	
2518 Location-Event	Enumerated	
2519 Pseudonym-Indicator	Enumerated	
2520 LCS-Service-Type-ID	Unsigned32	
2521 LCS-Privacy-Check-Non-Session	Grouped	
2522 LCS-Privacy-Check-Session	Grouped	
2523 LCS-QoS-Class	Enumerated	
2524 GERAN-Positioning-Info	Grouped	
2525 GERAN-Positioning-Data	OctetString	
2526 GERAN-GANSS-Positioning-Data	OctetString	,
2527 UTRAN-Positioning-Info	Grouped	•
2528 UTRAN-Positioning-Data	OctetString	
2529 UTRAN-GANSS-Positioning-Data	OctetString	
2530 LRR-Flags	Unsigned32	
2531 LCS-Reference-Number	OctetString	
2532 Deferred-Location-Type	Unsigned32	
2533 Area-Event-Info	Grouped	
2534 Area-Definition 2535 Area	Grouped Grouped	
2536 Area-Type	Unsigned32	
2537 Area-Identification	Grouped	
2538 Occurrence-Info	Enumerated	
2539 Interval-Time	Unsigned32	
2540 Periodic-LDR-Information	Grouped	
2541 Reporting-Amount	Unsigned32	
2542 Reporting-Interval	Unsigned32	
2543 Reporting-PLMN-List	Grouped	
2544 PLMN-ID-List	Grouped	
2545 PLR-Flags	Unsigned32	
2546 PLA-Flags	Unsigned32	,
2547 Deferred-MT-LR-Data	Grouped	,
2548 Termination-Cause	Unsigned32	,
2549 LRA-Flags	Unsigned32	
2550 Periodic-Location-Support-Indicator	Enumerated	
2551 Prioritized-List-Indicator	Enumerated	
2552 ESMLC-Cell-Info	Grouped	,
2553 Cell-Portion-ID	Unsigned32	,
2554 1xRTT-RCID	OctetString	
2555 Delayed-Location-Reporting-Data	Grouped	
2556 Civic-Address	UTF8String	
2557 Barometric-Pressure	Unsigned32	
2558 UTRAN-Additional-Positioning-Data	OctetString	
2559 Motion-Event-Info	Grouped	
2560 Linear-Distance	Unsigned32	
2561 Maximum-Interval	Unsigned32	
2562 Sampling-Interval	Unsigned32	
2563 Reporting-Duration	Unsigned32	
2564 Reporting-Location-Requirements	Unsigned32	
2565 Additional-Area	Grouped	
Note: The AVP codes from 2566 to 2599 are reserved for TS 29.172.		
2600 reserved	-	
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	. 1
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.	<del></del>	•
2700 Reserved	-	
2701 Transit-IOI-List	UTF8String	
2702 Status-AS-Code	Enumerated	32.299 [5]
2703 NNI-Information	Grouped	[-]
2704 NNI-Type	Enumerated	
1 1		

2824   NetLoc-Access-Support	[]	т	1
2708   From-Address			
2709   Access-Transfer-Information			_
2710   Access-Transfer-Type			_
2711   Related-MS-Charging-Identifier   UTF8String   2712   Related-MS-Charging-Identifier   UTF8String   2714   TVAN-User-Location-Info   UTF8String   2714   TVAN-User-Location-Info   Grouped   2715   Reserved			
2713   IMS Visited-Network-Identifier   UTFBString   2714   ITMAN-User-Location-Info   Grouped   2715   Reserved			
2713   IMS-Visited-Network-Identifier	2711 Related-IMS-Charging-Identifier	UTF8String	
2714   TWAN-User-Location-Info	2712 Related-IMS-Charging-Identifier-Node	Address	
2715   Reserved	2713 IMS-Visited-Network-Identifier	UTF8String	
2716   Reserved	2714 TWAN-User-Location-Info	Grouped	
2716   BSSID		-	
2717   TAD-Identifier   Enumerated		UTF8String	
Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299.		_	
2800   Reserved		Endinerated	
ADC-Revalidation-Time			
2802   TDF-Application-Instance-Identifier		Time	<del>- </del>
2803   HeNB-BEF-FODN			
2805   UE-Local-P-Address			_
2805   UE-Local-IP-Address   Address			
2806   UDP-Source-Port			
2808   Cs-Service-Qos-Request-Operation			<b>→</b>
2809   Mute-Notification			_
2809   Mute-Notification	2807 CS-Service-Qos-Request-Identifier	OctetString	
2809   Mute-Notification	2808 CS-Service-QoS-Request-Operation	Enumerated	
AN-GW-Status			
Zeria   AN-GW-Status   Enumerated   Zeria   User-Location-Info-Time   Grouped   CS-Service-Resource-Report   Time   Time   Zeria   CS-Service-Resource-Report   Time   Zeria   CS-Service-Resource-Result-Operation   Enumerated   Enumerated   Enumerated   Zeria   CS-Service-Resource-Result-Operation   Enumerated   Enumerated   Zeria   Default-QoS-Information   Grouped   UTF8String   Zeria   Conjumentation   Grouped   Zeria   Default-QoS-Information   Grouped   UTF8String   Zeria   Conjumentation   Grouped   Zeria   Conjumentation   Grouped   Zeria   Presence-Reporting-Area-Elements-List   Grouped   Zeria   Presence-Reporting-Area-Information   Grouped   Zeria   Z			$\neg$
2813   User-Location-Info-Time   Grouped			7
2813   CS-Service-Resource-Report			
2814   CS-Service-Resource-Failure-Cause   Enumerated			
2815   CS-Service-Resource-Result-Operation   Enumerated			
2816   Default-QoS-Information		<u> </u>	<del>- </del>
Default-QoS-Name			
2818   Conditional-APN-Aggregate-Max-Bitrate   Grouped			_
2819   RAN-NAS-Release-Cause   OctetString   2820   Presence-Reporting-Area-Elements-List   OctetString   2821   Presence-Reporting-Area-Information   Grouped   2822   Presence-Reporting-Area-Information   Grouped   2823   Presence-Reporting-Area-Information   Grouped   2824   NetLoc-Access-Support   Unsigned32   2825   Fixed-User-Location-Info   Grouped   2826   PCSCF-Restoration-Indication   Unsigned32   2827   IP-CAN-Session-Charging-Scope   Enumerated   2828   Monitoring-Flags   Unsigned32   2829   Default-Access   Enumerated   2830   NBIFOM-Mode   Enumerated   2831   NBIFOM-Support   Enumerated   2832   RAN-Rule-Support   Unsigned32   2833   Routing-Rule-Failure-Code   Unsigned32   2834   Routing-Rule-Failure-Code   Unsigned32   2835   Routing-Rule-Report   Grouped   2836   Traffic-Steering-Policy-Identifier-DL   OctetString   2837   Traffic-Steering-Policy-Identifier-UL   OctetString   2838   Request-Type   Unsigned32   2839   Execution-Time   Time   2840   Conditional-Policy-Information   Grouped   2841   Removal-Of-Access   Enumerated   2842   Removal-Of-Access   Enumerated   2843   TCP-Source-Port   Unsigned32   2844   Default-Bearer-Indication   Enumerated   2845   PRA-Install   Grouped   2846   PRA-Remove   Grouped   2847   Grouped   Grouped   2848   PRA-Remove   Grouped   2849   PRA-Remove   Grouped   2840   PRA-Remove   Grouped   2841   The Prodes from 2848 to 2899 are reserved for TS 29.212.   2900   reserved   - 29.219			
Presence-Reporting-Area-Elements-List			
Presence-Reporting-Area-Information   Grouped			_
2822   Presence-Reporting-Area-Information   Grouped   2823   Presence-Reporting-Area-Status   Unsigned32   2824   NetLoc-Access-Support   Unsigned32   2825   Fixed-User-Location-Info   Grouped   2826   PCSCF-Restoration-Indication   Unsigned32   2827   IP-CAN-Session-Charging-Scope   Enumerated   2828   Monitoring-Flags   Unsigned32   2829   Default-Access   Enumerated   2830   NBIFOM-Mode   Enumerated   2831   NBIFOM-Support   Enumerated   2832   RAN-Rule-Support   Unsigned32   2833   Access-Availability-Change-Reason   Unsigned32   2834   Routing-Rule-Failure-Code   Unsigned32   2835   Routing-Rule-Failure-Code   Unsigned32   2836   Traffic-Steering-Policy-Identifier-DL   OctetString   2837   Traffic-Steering-Policy-Identifier-UL   OctetString   2838   Request-Type   Unsigned32   2839   Execution-Time   Time   2840   Conditional-Policy-Information   Grouped   2841   Resource-Release-Notification   Enumerated   2842   Removal-Of-Access   Enumerated   2843   TCP-Source-Port   Unsigned32   2844   Default-Bearer-Indication   Enumerated   2845   PRA-Install   Grouped   2846   PRA-Remove   Grouped   2847   3GPP-PS-Data-Off-Status   Enumerated   2848   Pra-Ps-Data-Off-Status   Enumerated   2849   Preserved   - 29.219		·	
2823   Presence-Reporting-Area-Status   Unsigned32   29.212   2824   NetL.oc-Access-Support   Unsigned32   [19]   2825   Fixed-User-Location-Info   Grouped   2826   PCSCF-Restoration-Indication   Unsigned32   2827   IP-CAN-Session-Charging-Scope   Enumerated   2828   Monitoring-Flags   Unsigned32   2829   Default-Access   Enumerated   2830   NBIFOM-Mode   Enumerated   2831   NBIFOM-Support   Enumerated   2831   NBIFOM-Support   Enumerated   2832   RAN-Rule-Support   Unsigned32   2833   Access-Availability-Change-Reason   Unsigned32   2834   Routing-Rule-Report   Grouped   2835   Routing-Rule-Report   Grouped   2836   Traffic-Steering-Policy-Identifier-DL   OctetString   2837   Traffic-Steering-Policy-Identifier-UL   OctetString   2838   Request-Type   Unsigned32   2839   Execution-Time   Time   2840   Conditional-Policy-Information   Grouped   2841   Resource-Release-Notification   Enumerated   2842   Removal-Of-Access   Enumerated   2843   TCP-Source-Port   Unsigned32   2844   Default-Bearer-Indication   Enumerated   2845   PRA-Install   Grouped   2846   PRA-Remove   Grouped   2847   3GPP-P-Data-Off-Status   Enumerated   2848   The AVP codes from 2848 to 2899 are reserved for TS 29.212.   2900   reserved   - 29.219			
2824   NetLoc-Access-Support		Grouped	
2825   Fixed-User-Location-Info   Grouped	2823 Presence-Reporting-Area-Status	Unsigned32	29.212
2826   PCSCF-Restoration-Indication   Unsigned32     2827   IP-CAN-Session-Charging-Scope   Enumerated     2828   Monitoring-Flags   Unsigned32     2829   Default-Access   Enumerated     2830   NBIFOM-Mode   Enumerated     2831   NBIFOM-Support   Enumerated     2832   RAN-Rule-Support   Unsigned32     2833   Access-Availability-Change-Reason   Unsigned32     2834   Routing-Rule-Failure-Code   Unsigned32     2835   Routing-Rule-Failure-Code   Unsigned32     2836   Routing-Rule-Report   Grouped     2837   Traffic-Steering-Policy-Identifier-DL   OctetString     2838   Request-Type   Unsigned32     2839   Execution-Time   Time     2840   Conditional-Policy-Information   Grouped     2841   Resource-Release-Notification   Enumerated     2842   Removal-Of-Access   Enumerated     2843   TCP-Source-Port   Unsigned32     2844   Default-Bearer-Indication   Enumerated     2845   PRA-Install   Grouped     2846   PRA-Remove   Grouped     2847   3GPP-PS-Data-Off-Status   Enumerated     Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.     2900   reserved   - 29.219	2824 NetLoc-Access-Support	Unsigned32	[19]
2826   PCSCF-Restoration-Indication   Unsigned32     2827   IP-CAN-Session-Charging-Scope   Enumerated     2828   Monitoring-Flags   Unsigned32     2829   Default-Access   Enumerated     2830   NBIFOM-Mode   Enumerated     2831   NBIFOM-Support   Enumerated     2832   RAN-Rule-Support   Unsigned32     2833   Access-Availability-Change-Reason   Unsigned32     2834   Routing-Rule-Failure-Code   Unsigned32     2835   Routing-Rule-Failure-Code   Unsigned32     2836   Routing-Rule-Report   Grouped     2837   Traffic-Steering-Policy-Identifier-DL   OctetString     2838   Request-Type   Unsigned32     2839   Execution-Time   Time     2840   Conditional-Policy-Information   Grouped     2841   Resource-Release-Notification   Enumerated     2842   Removal-Of-Access   Enumerated     2843   TCP-Source-Port   Unsigned32     2844   Default-Bearer-Indication   Enumerated     2845   PRA-Install   Grouped     2846   PRA-Remove   Grouped     2847   3GPP-PS-Data-Off-Status   Enumerated     Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.     2900   reserved   - 29.219	2825 Fixed-User-Location-Info	Grouped	
2828 Monitoring-Flags         Unsigned32           2829 Default-Access         Enumerated           2830 NBIFOM-Mode         Enumerated           2831 NBIFOM-Support         Enumerated           2832 RAN-Rule-Support         Unsigned32           2833 RACcess-Availability-Change-Reason         Unsigned32           2834 Routing-Rule-Failure-Code         Unsigned32           2835 Routing-Rule-Report         Grouped           2836 Traffic-Steering-Policy-Identifier-DL         OctetString           2837 Traffic-Steering-Policy-Identifier-UL         OctetString           2838 Request-Type         Unsigned32           2839 Execution-Time         Time           2840 Conditional-Policy-Information         Grouped           2841 Resource-Release-Notification         Enumerated           2842 Removal-Of-Access         Enumerated           2843 TCP-Source-Port         Unsigned32           2844 Default-Bearer-Indication         Enumerated           2845 PRA-Install         Grouped           2846 PRA-Remove         Grouped           2847 3GPP-PS-Data-Off-Status         Enumerated           Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.         29.219			7
2828 Monitoring-Flags         Unsigned32           2829 Default-Access         Enumerated           2830 NBIFOM-Mode         Enumerated           2831 NBIFOM-Support         Enumerated           2832 RAN-Rule-Support         Unsigned32           2833 RACcess-Availability-Change-Reason         Unsigned32           2834 Routing-Rule-Failure-Code         Unsigned32           2835 Routing-Rule-Report         Grouped           2836 Traffic-Steering-Policy-Identifier-DL         OctetString           2837 Traffic-Steering-Policy-Identifier-UL         OctetString           2838 Request-Type         Unsigned32           2839 Execution-Time         Time           2840 Conditional-Policy-Information         Grouped           2841 Resource-Release-Notification         Enumerated           2842 Removal-Of-Access         Enumerated           2843 TCP-Source-Port         Unsigned32           2844 Default-Bearer-Indication         Enumerated           2845 PRA-Install         Grouped           2846 PRA-Remove         Grouped           2847 3GPP-PS-Data-Off-Status         Enumerated           Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.         29.219	2827 IP-CAN-Session-Charging-Scope	Enumerated	
2829   Default-Access   Enumerated	<u> </u>		
Removed			
2831         NBIFOM-Support         Enumerated           2832         RAN-Rule-Support         Unsigned32           2833         Access-Availability-Change-Reason         Unsigned32           2834         Routing-Rule-Failure-Code         Unsigned32           2835         Routing-Rule-Report         Grouped           2836         Traffic-Steering-Policy-Identifier-DL         OctetString           2837         Traffic-Steering-Policy-Identifier-UL         OctetString           2838         Request-Type         Unsigned32           2839         Execution-Time         Time           2840         Conditional-Policy-Information         Grouped           2841         Resource-Release-Notification         Enumerated           2842         Removal-Of-Access         Enumerated           2843         TCP-Source-Port         Unsigned32           2844         Default-Bearer-Indication         Enumerated           2845         PRA-Install         Grouped           2846         PRA-Remove         Grouped           2847         3GPP-PS-Data-Off-Status         Enumerated           Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.         29.219			+
2832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped2836Traffic-Steering-Policy-Identifier-DLOctetString2837Traffic-Steering-Policy-Identifier-ULOctetString2838Request-TypeUnsigned322839Execution-TimeTime2840Conditional-Policy-InformationGrouped2841Resource-Release-NotificationEnumerated2842Removal-Of-AccessEnumerated2843TCP-Source-PortUnsigned322844Default-Bearer-IndicationEnumerated2845PRA-InstallGrouped2846PRA-RemoveGrouped28473GPP-PS-Data-Off-StatusEnumeratedNote: The AVP codes from 2848 to 2899 are reserved for TS 29.21229.219		<u> </u>	<del> </del>
2833 Access-Availability-Change-Reason  2834 Routing-Rule-Failure-Code  2835 Routing-Rule-Report  2836 Traffic-Steering-Policy-Identifier-DL  2837 Traffic-Steering-Policy-Identifier-UL  2838 Request-Type  2839 Execution-Time  2840 Conditional-Policy-Information  2841 Resource-Release-Notification  2842 Removal-Of-Access  2843 TCP-Source-Port  2844 Default-Bearer-Indication  2845 PRA-Install  2846 PRA-Remove  2847 3GPP-PS-Data-Off-Status  Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.  2900 reserved  Unsigned32  Unsigned32  Unsigned32  Unsigned32  Enumerated  Grouped  Grouped  Grouped  Grouped  Grouped  Funderated  F			<del>- </del>
2834         Routing-Rule-Failure-Code         Unsigned32           2835         Routing-Rule-Report         Grouped           2836         Traffic-Steering-Policy-Identifier-DL         OctetString           2837         Traffic-Steering-Policy-Identifier-UL         OctetString           2838         Request-Type         Unsigned32           2839         Execution-Time         Time           2840         Conditional-Policy-Information         Grouped           2841         Resource-Release-Notification         Enumerated           2842         Removal-Of-Access         Enumerated           2843         TCP-Source-Port         Unsigned32           2844         Default-Bearer-Indication         Enumerated           2845         PRA-Install         Grouped           2846         PRA-Remove         Grouped           2847         3GPP-PS-Data-Off-Status         Enumerated           Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.         29.219			<del>- </del>
2835 Routing-Rule-Report  2836 Traffic-Steering-Policy-Identifier-DL  2837 Traffic-Steering-Policy-Identifier-UL  2838 Request-Type  2839 Execution-Time  2840 Conditional-Policy-Information  2841 Resource-Release-Notification  2842 Removal-Of-Access  2843 TCP-Source-Port  2844 Default-Bearer-Indication  2845 PRA-Install  2846 PRA-Remove  2847 3GPP-PS-Data-Off-Status  Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.  2900 reserved  CotetString  OctetString  OctetString  CoutedString  Unsigned32  Enumerated  Enumerated  Grouped  Grouped  Enumerated  Finumerated  Couped  Enumerated  Enumerated  Couped  Enumerated  Enumerated  Couped  Enumerated  Enumerated  Couped  Enumerated  Enumerated  Enumerated			<del>- </del>
2836 Traffic-Steering-Policy-Identifier-DL 2837 Traffic-Steering-Policy-Identifier-UL 2838 Request-Type 2839 Execution-Time 2840 Conditional-Policy-Information 2841 Resource-Release-Notification 2842 Removal-Of-Access 2843 TCP-Source-Port 2844 Default-Bearer-Indication 2845 PRA-Install 2846 PRA-Remove 2847 3GPP-PS-Data-Off-Status Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212. 2900 reserved  OctetString O			_
2837 Traffic-Steering-Policy-Identifier-UL         OctetString           2838 Request-Type         Unsigned32           2839 Execution-Time         Time           2840 Conditional-Policy-Information         Grouped           2841 Resource-Release-Notification         Enumerated           2842 Removal-Of-Access         Enumerated           2843 TCP-Source-Port         Unsigned32           2844 Default-Bearer-Indication         Enumerated           2845 PRA-Install         Grouped           2846 PRA-Remove         Grouped           2847 3GPP-PS-Data-Off-Status         Enumerated           Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.         29.219			_
2838 Request-Type         Unsigned32           2839 Execution-Time         Time           2840 Conditional-Policy-Information         Grouped           2841 Resource-Release-Notification         Enumerated           2842 Removal-Of-Access         Enumerated           2843 TCP-Source-Port         Unsigned32           2844 Default-Bearer-Indication         Enumerated           2845 PRA-Install         Grouped           2846 PRA-Remove         Grouped           2847 3GPP-PS-Data-Off-Status         Enumerated           Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.         29.219			_
2839 Execution-Time         Time           2840 Conditional-Policy-Information         Grouped           2841 Resource-Release-Notification         Enumerated           2842 Removal-Of-Access         Enumerated           2843 TCP-Source-Port         Unsigned32           2844 Default-Bearer-Indication         Enumerated           2845 PRA-Install         Grouped           2846 PRA-Remove         Grouped           2847 3GPP-PS-Data-Off-Status         Enumerated           Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.         29.219			
2839 Execution-Time         Time           2840 Conditional-Policy-Information         Grouped           2841 Resource-Release-Notification         Enumerated           2842 Removal-Of-Access         Enumerated           2843 TCP-Source-Port         Unsigned32           2844 Default-Bearer-Indication         Enumerated           2845 PRA-Install         Grouped           2846 PRA-Remove         Grouped           2847 3GPP-PS-Data-Off-Status         Enumerated           Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.         29.219	2838 Request-Type	Unsigned32	
2840 Conditional-Policy-Information         Grouped           2841 Resource-Release-Notification         Enumerated           2842 Removal-Of-Access         Enumerated           2843 TCP-Source-Port         Unsigned32           2844 Default-Bearer-Indication         Enumerated           2845 PRA-Install         Grouped           2846 PRA-Remove         Grouped           2847 3GPP-PS-Data-Off-Status         Enumerated           Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.         29.219			
2841 Resource-Release-Notification       Enumerated         2842 Removal-Of-Access       Enumerated         2843 TCP-Source-Port       Unsigned32         2844 Default-Bearer-Indication       Enumerated         2845 PRA-Install       Grouped         2846 PRA-Remove       Grouped         2847 3GPP-PS-Data-Off-Status       Enumerated         Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.       29.219			
2842       Removal-Of-Access       Enumerated         2843       TCP-Source-Port       Unsigned32         2844       Default-Bearer-Indication       Enumerated         2845       PRA-Install       Grouped         2846       PRA-Remove       Grouped         2847       3GPP-PS-Data-Off-Status       Enumerated         Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.       29.219			$\neg$
2843       TCP-Source-Port       Unsigned32         2844       Default-Bearer-Indication       Enumerated         2845       PRA-Install       Grouped         2846       PRA-Remove       Grouped         2847       3GPP-PS-Data-Off-Status       Enumerated         Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.       29.219			7
2844 Default-Bearer-Indication       Enumerated         2845 PRA-Install       Grouped         2846 PRA-Remove       Grouped         2847 3GPP-PS-Data-Off-Status       Enumerated         Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.       -       29.219			7
2845 PRA-Install         Grouped           2846 PRA-Remove         Grouped           2847 3GPP-PS-Data-Off-Status         Enumerated           Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.         -         29.219			7
2846         PRA-Remove         Grouped           2847         3GPP-PS-Data-Off-Status         Enumerated           Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.         -         29.219			<del> </del>
2847 3GPP-PS-Data-Off-Status  Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.  2900 reserved  - 29.219			<del> </del>
Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.  2900   reserved			$\dashv$
2900 reserved - 29.219		Enumerated	
		Т	000:
Crouped [26]		<del>-</del> -	<del></del>
2901   Policy-Counter-Identifier   Grouped   [20]	2901 Policy-Counter-Identifier	Grouped	[26]

2902 Policy-Counter-Status	UTF8String	
2903 Policy-Counter-Status-Report	Grouped	
2904 SL-Request-Type	Enumerated	
Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219.		
3000 reserved	-	
3001 Device-Action	Grouped	
3002 Device-Notification	Grouped	
3003 Trigger-Data	Grouped	
3004 Payload	OctetString	
3005 Action-Type	Enumerated	29.368
3006 Priority-Indication	Enumerated	[27]
3007 Reference-Number 3008 Request-Status	Unsigned32 Enumerated	
3009 Delivery-Outcome	Enumerated	<del></del>
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.	Oneignous_	
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 3113 AESE-Communication-Pattern	DiameterIdentity	<del></del>
3114 Communication-Pattern-Set	Grouped Grouped	<del></del>
3115 Periodic-Communication-Indicator	Unsigned32	
3116 Communication-Duration-Time	Unsigned32	
3117 Periodic-Time	Unsigned32	
3118 Scheduled-Communication-Time	Grouped	
3119 Stationary-Indication	Unsigned32	
3120 AESE-Communication-Pattern-Config-Status	Grouped	
3121 AESE-Error-Report	Grouped	
3122 Monitoring-Event-Configuration	Grouped	20.226
3123 Monitoring-Event-Report	Grouped	29.336 [28]
3124 SCEF-Reference-ID	Unsigned32	[20]
3125 SCEF-ID	DiameterIdentity	
3126 SCEF-Reference-ID-for-Deletion	Unsigned32	
3127 Monitoring-Type	Unsigned32	
3128 Maximum-Number-of-Reports	Unsigned32	
3129 UE-Reachability-Configuration	Grouped	
3130 Monitoring-Duration 3131 Maximum-Detection-Time	Time	
3131   Maximum-Detection-Time   3132   Reachability-Type	Unsigned32 Unsigned32	
3133 Maximum-Latency	Unsigned32	
3134 Maximum-Response-Time	Unsigned32	
3135 Location-Information-Configuration	Grouped	
3136 MONTE-Location-Type	Unsigned32	
3137 Accuracy	Unsigned32	
3138 Association-Type	Unsigned32	
3139 Roaming-Information	Unsigned32	
3140 Reachability-Information		
	Unsigned32	
3141 IMEI-Change	Unsigned32	
3142 Monitoring-Event-Config-Status	Unsigned32 Grouped	
3142 Monitoring-Event-Config-Status 3143 Supported-Service-Masks	Unsigned32 Grouped Grouped	
3142 Monitoring-Event-Config-Status 3143 Supported-Service-Masks 3144 Supported-Monitoring-Event-Mask	Unsigned32 Grouped Grouped Unsigned64	
3142 Monitoring-Event-Config-Status 3143 Supported-Service-Masks	Unsigned32 Grouped Grouped	

	11 1 100	
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-Monitoring-Event-Report	Grouped	
3166 Group-Monitoring-Event-Report-Item	Grouped	
3167 RIR-Flags	Unsigned32	
3168 Type-Of-External-Identifier	Unsigned32	
3169 APN-Validity-Time	Grouped	
Note: The AVP codes from 3170 to 3199 are reserved for TS 29.336.	•	•
3200 SM-Delivery-Outcome-T4	Enumerated	
3201 Absent-Subscriber-Diagnostic-T4	Enumerated	29.337
3202 Trigger-Action	Unsigned32	[29]
3203 MTC-Error-Diagnostic	Unsigned32	- ' '
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.	g	I
3300 SC-Address	OctetString	
3301 SM-RP-UI	OctetString	
3302 TFR-Flags	Unsigned32	
3303 SM-Delivery- Failure-Cause	Grouped	
3304 SM-Enumerated-Delivery-Failure-Cause	Enumerated	
3305 SM-Diagnostic-Info	OctetString	
3306 SM-Delivery-Timer	Unsigned32	
3307 SM-Delivery-Start-Time	Time	
3308 SM-RP-MTI	Enumerated	
3309 SM-RP-SMEA	OctetString	
3310 SRR-Flags	•	
	Unsigned32	
3311 SM-Delivery-Not-Intended	Enumerated	
3312 MWD-Status	Unsigned32	
3313 MME-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3314 MSC-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3315 SGSN-Absent-User-Subscriber-Diagnostic SM	Unsigned32	
3316 SM-Delivery-Outcome	Grouped	29.338
3317 MME-SM-Delivery-Outcome	Grouped	[30]
3318 MSC-SM-Delivery-Outcome	Grouped	
3319 SGSN-SM-Delivery-Outcome	Grouped	
3320 IP-SM-GW-SM-Delivery-Outcome	Grouped	
3321 SM-Delivery-Cause	Enumerated	
3322 Absent-User-Diagnostic-SM	Unsigned32	
3323 RDR-Flags	Unsigned32	
3324 SMSMI-Correlation-ID	Unsigned32	
3325 HSS-ID	UTF8String	
3326 Originating-SIP-URI	UTF8String	
3327 Destination-SIP-URI	UTF8String	
3328 OFR-Flags	Unsigned32	
3329 Maximum-UE-Availability-Time	Time	
3330 Maximum-Retransmission-Time	Time	
3331 Requested-Retransmission-Time	Time	
	OctetString	
I3332 ISMS-GMSC-Address		
3332 SMS-GMSC-Address 3333 SMS-GMSC-Alert-Event		
3332 SMS-GMSC-Address 3333 SMS-GMSC-Alert-Event Note: The AVP codes from 3334 to 3399 are reserved for TS 29.338.	Unsigned32	

	Reason-Header	UTF8String
	nstance-Id	UTF8String
	Route-Header-Received	UTF8String
	Route-Header-Transmitted	UTF8String
	SM-Device-Trigger-Information	Grouped
	MTC-IWF-Address	Address
	SM-Device-Trigger-Indicator	Enumerated
	SM-Sequence-Number	Unsigned32
	SMS-Result	Unsigned32
	/CS-Information Basic-Service-Code	Grouped Grouped
	Bearer-Capability	OctetString
	Teleservice	OctetString
	SUP-Location-Number	OctetString
	Forwarding-Pending	Enumerated
	SUP-Release-Cause	Unsigned32
	MSC-Address	OctetString
	Network-Call-Reference-Number	OctetString
3419	Start-of-Charging	Time
3420 \	/LR-Number	OctetString
3421	CN-Operator-Selection-Entity	Enumerated
	SUP-Cause-Diagnostics	OctetString
	SUP-Cause-Location	Unsigned32
	SUP-Cause-Value	Unsigned32
	EPDG-Address	Address
	Announcing-UE-HPLMN-Identifier	UTF8String
	Announcing-UE-VPLMN-Identifier	UTF8String
	Coverage-Status	Enumerated
	_ayer-2-Group-ID Monitored-PLMN-Identifier	OctetString
	Monitoring-UE-HPLMN-Identifier	UTF8String UTF8String
	Monitoring-UE-Identifier	UTF8String
	Monitoring-UE-VPLMN-Identifier	UTF8String
	ProSe-PC3-Control-Protocol-Cause	Integer32
	ProSe-PC3-EPC-Control-Protocol-Cause	Integer32
	Requested-PLMN-Identifier	UTF8String
	Requestor-PLMN-Identifier	UTF8String
	Role-Of-ProSe-Function	Enumerated
3439 L	Jsage-Information-Report-Sequence-Number	Integer32
	ProSe-3rd-Party-Application-ID	UTF8String
	ProSe-Direct-Communication-Transmission-Data-Container	Grouped
	ProSe-Direct-Discovery-Model	Enumerated
	ProSe-Event-Type	Enumerated
	ProSe-Function-IP-Address	Address
	ProSe-Functionality	Enumerated
	ProSe-Group-IP-Multicast-Addresses	Address
	ProSe-Information	Grouped Enumerated
	ProSe-Range-Class ProSe-Reason-For-Cancellation	Enumerated
	ProSe-Request-Timestamp	Time
	ProSe-Role-Of-UE	Enumerated
	ProSe-Source-IP-Address	Address
	ProSe-UE-ID	OctetString
	Proximity-Alert-Indication	Enumerated
	Proximity-Alert-Timestamp	Time
	Proximity-Cancellation-Timestamp	Time
	ProSe-Function-PLMN-Identifier	UTF8String
	Application-Specific-Data	OctetString
	Coverage-Info	Grouped
	_ocation-Info	Grouped
	ProSe-Direct-Communication-Reception-Data-Container	Grouped
	Radio-Frequency	OctetString
	Radio-Parameter-Set-Info	Grouped
	Radio-Parameter-Set-Values	OctetString
3465 F	Radio-Resources-Indicator	Integer32

3467   Time-First-Transmission   Time   3468   Transmission   Grouped	3466 Time-First-Reception	Time	
S468   Transmitter-Info			
Note:         The AVP codes from 3489 to 3499 are reserved for TS 32.299.           3000         BMSC-Address         Address           3501         BMSC-Board         Lunsigned32           3501         BMSC-Barer-Event         Unsigned32           3503         MBMS-Barer-Event-Molification         Grouped           3504         MBMS-Barer-Response         Grouped           3505         MBMS-Barer-Response         Grouped           3506         MBMS-Barer-Response         Grouped           3507         MBMS-Start-Time         Time           3508         Radio-Frequency         Unsigned32           3509         TMG-Hollocation-Response         Grouped           3511         TMG-Hollocation-Response         Grouped           3512         TMGI-Deallocation-Response         Grouped           3511         TMGI-Microtion-Response         Grouped           3512         TMGI-Deallocation-Response         Grouped           3513         MIMG-Beallocation-Response         Grouped           3514         TMGI-Deallocation-Response         Grouped           3515         MIMG-Willocation-Response         Grouped           3517         MBZU-Security         Unsigned32           3518			
MBMS-Pearler-Event		Crouped	
BMSC-Port		Address	
MBMS-Bearer-Event Notification			
MBMS-Bearer-Request   Grouped			
MBMS-Bearer-Response			
			<del></del>
MBMS-Start-Time			
3509   TMGI-Allocation-Response   Grouped			
3510   TMGI-Allocation-Response   Grouped   3511   TMGI-Allocation-Resput   Unsigned32   29.468   3513   TMGI-Deallocation-Resput   Grouped   3513   TMGI-Deallocation-Resput   Unsigned32   3515   TMGI-Deallocation-Resput   Unsigned32   3515   TMGI-Deallocation-Resput   Unsigned32   3516   TMGI-Deallocation-Resput   Unsigned32   3516   TMGI-Deallocation-Resput   Unsigned32   3516   TMGI-Number   Unsigned32   3517   MB2U-Security   Unsigned32   3518   Local-MB2-U-Information   Grouped   3518   Local-MB2-U-Information   Grouped   3518   Local-MB2-U-Information   Grouped   3519   Local-MB2-U-Information   Grouped   3520   MBMS-GNE-IPVe-Multicast-Address   Address   Address   3521   MBMS-eNB-IPVe-Address   Address   Address   3522   MBMS-GW-SSM-IPVe-Address   Address   Address   3524   MBMS-GW-SSM-IPVe-Address   Address   3524   MBMS-GW-SSM-IPVe-Address   Address   3524   MBMS-GW-SSM-IPVe-Address   Address   Address   3524   MBMS-GW-SSM-IPVe-Address   3524   MBMS-GW-SSM-IPVe-Address   Address   3524   MBMS-GW-SSM-IPVe-Address   4015   MBMS-GW-SSM-IPVE-Add			<del></del>
29.468			
3511 TMGI-Deallocation-Reguest   Grouped   [31]			
Signature   Structure   Stru			29.468
3513   TimG-Dealiocation-Result			[31]
Sa15   TMGI-Expiry   Grouped			
1516   TMGI-Number			
MB2U-Security			
Sa18   Local-M1-Information   Grouped			
1.519   Local-MB2-U-Information   Grouped			
MBMS-eNB-IP-Multicast-Address			
BBMS-eNB-IPV6-Multicast-Address   Address			
MBMS-GW-SSM-IP-Address   Address   Address   Address   Address   Address   Address   S22   Common-Tunnel-Endpoint-Identifier   OctetString   OctetString   OctetString   Origin-App-Layer-User-Id   UTF8String   AGD   Origin-App-Layer-User-Id   UTF8String   OctetString   OctetString		Address	
		Address	
Note: The AVP codes from 3525 to 3599 are reserved for TS 29.468.	3523 MBMS-GW-SSM-IPv6-Address	Address	
3600   Origin-App-Layer-User-Id   UTF8String   3601   Target-App-Layer-User-Id   UTF8String   3601   Target-App-Layer-User-Id   UTF8String   3602   ProSe-Function-ID   OctetString   3603   ProSe-Request-Type   Unsigned32   3604   PDUID   OctetString   3605   Application-Data   UTF8String   3606   Application-Data   UTF8String   3606   Allowed-Suffixes-Number   Unsigned32   3607   Monitor-Target   Grouped   3608   ProSe-Code-Suffix-Mask   Grouped   3608   ProSe-Code-Suffix-Mask   OctetString   3610   Suffix-Code   OctetString   3611   Banned-User-Target   Grouped   3612   Metadata-Indicator   Unsigned32   3703   ProSe-Permission   Unsigned32   3703   ProSe-Permission   Unsigned32   3703   ProSe-Permission   Unsigned32   3704   ProSe-Direct-Allowed   Unsigned32   3704   ProSe-Direct-Allowed   Unsigned32   3706   PNR-Flags   Unsigned32   3707   ProSe-Initial-Location-Information   Grouped   3708   Authorized-Discovery-Range   Unsigned32   3801   App-Layer-User-Id   UTF8String   3802   Assistance-info   Grouped   3803   Assistance-info-Validity-Timer   Unsigned32   3805   Match-Report   Grouped   3806   MAC-Address   UTF8String   3807   Match-Report   Grouped   3808   Operating-Channel   Unsigned32   3809   P2P-Features   Unsigned32   3809   P2P-Features   Unsigned33   3809   P309   P309   P2P-Features   Unsigned33   3809   P309   P309   P309   P309   P309   P309   P309   P309   P309   P3	3524 Common-Tunnel-Endpoint-Identifier	OctetString	
	Note: The AVP codes from 3525 to 3599 are reserved for TS 29.468.		
3602   ProSe-Function-ID	3600 Origin-App-Layer-User-Id	UTF8String	
3603   ProSe-Request-Type	3601 Target-App-Layer-User-Id	UTF8String	
3604   PDUID   OctetString   3605   Application-Data   UTF8String   3606   Application-Data   UTF8String   3606   Allowed-Suffixes-Number   Unsigned32   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   Mote: 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   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   Unsigned32   3801   App-Layer-User-Id   Unsigned32   3803   Assistance-Info-Validity-Timer   Unsigned32   3804   Discovery-Type   Unsigned32   3805   Filter-Id   OctetString   29.345   3806   MAC-Address   UTF8String   3807   Match-Report   Grouped   3808   Operating-Channel   Unsigned32   3809   P2P-Features   Unsigned32   3801   ProSe-App-Code   UTF8String   UTF8String   3801   ProSe-App-Code   UTF8String   3801   ProSe-App-Code   UTF8String   UTF8String   3801   ProSe-App-Code   UTF8String   UTF8String   3801   ProSe-App-Code   UTF8String   UTF8	3602 ProSe-Function-ID	OctetString	
3604   PDUID   OctetString   3605   Application-Data   UTF8String   3606   Application-Data   UTF8String   3606   Allowed-Suffixes-Number   Unsigned32   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   Mote: 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   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   Unsigned32   3801   App-Layer-User-Id   Unsigned32   3803   Assistance-Info-Validity-Timer   Unsigned32   3804   Discovery-Type   Unsigned32   3805   Filter-Id   OctetString   29.345   3806   MAC-Address   UTF8String   3807   Match-Report   Grouped   3808   Operating-Channel   Unsigned32   3809   P2P-Features   Unsigned32   3801   ProSe-App-Code   UTF8String   UTF8String   3801   ProSe-App-Code   UTF8String   3801   ProSe-App-Code   UTF8String   UTF8String   3801   ProSe-App-Code   UTF8String   UTF8String   3801   ProSe-App-Code   UTF8String   UTF8	3603 ProSe-Request-Type		
3605   Application-Data   UTF8String   29,343   3606   Allowed-Suffixes-Number   Unsigned32   3607   Monitor-Target   Grouped   3608   ProSe-Code-Suffix-Mask   Grouped   3609   Suffix-Code   OctetString   3610   Suffix-Mask   OctetString   3611   Banned-User-Target   Grouped   3611   Banned-User-Target   Grouped   3611   Banned-User-Target   Grouped   3612   Metadata-Indicator   Unsigned32   Mote: 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   3706   PNR-Flags   Unsigned32   3706   PNR-Flags   Unsigned32   3707   ProSe-Initial-Location-Information   Grouped   3708   Authorized-Discovery-Range   Unsigned32   Mote: The AVP codes from 3709 to 3799 are reserved for TS 29.344.   3800   Reserved   UTF8String   3802   Assistance-Info-Validity-Timer   Unsigned32   3804   Discovery-Type   Unsigned32   3805   Filter-Id   OctetString   29.345   3806   MAC-Address   UTF8String   3807   Match-Report   Grouped   3808   Operating-Channel   Unsigned32   3809   P2P-Features   Unsigned32   3801   ProSe-App-Code   UTF8String   UTF8String   3801   ProSe-App-Code   UTF8String   UTF8String   3801   ProSe-App-Code   UTF8String   UTF			
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-Plemission   Unsigned32   3703   ProSe-Direct-Allowed   Unsigned32   29.344   3705   UPR-Flags   Unsigned32   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   UTF8String   3803   Assistance-info   Grouped   3803   Assistance-info   Grouped   3803   Assistance-info   Grouped   3806   MAC-Address   UTF8String   29.345   3806   MAC-Address   UTF8String   29.345   3807   Match-Report   Grouped   3808   Operating-Channel   Unsigned32   3809   P2P-Features   Unsigned32	3605 Application-Data		
3607   Monitor-Target   Grouped   Grouped   3608   ProSe-Code-Suffix-Mask   Grouped   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.         Grouped           3701         ProSe-Subscription-Data         Grouped           3702         ProSe-Dermission         Unsigned32           3703         ProSe-Allowed-PLMN         Grouped           3704         ProSe-Direct-Allowed         Unsigned32           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         3801           3802         Assistance-Info-Validity-Timer         Unsigned32           3804         Discovery-Type         Unsigned32           3805         Filter-Id         OctetString         29.345           3806         MA			[32]
3609   Suffix-Code   OctetString   3610   Suffix-Mask   OctetString   3611   Banned-User-Target   Grouped   Unsigned32   Metadata-Indicator   Unsigned32   Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343.   3701   ProSe-Subscription-Data   Grouped   Grouped   Grouped   Grouped   Grouped   Grouped   3702   ProSe-Permission   Unsigned32   29.344   3705   UPR-Flags   Unsigned32   29.344   3705   UPR-Flags   Unsigned32   [33]   3706   PNR-Flags   Unsigned32   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   UTF8String   3801   App-Layer-User-Id   UTF8String   3802   Assistance-info   Grouped   3803   Assistance-info-Validity-Timer   Unsigned32   3804   Discovery-Type   Unsigned32   3805   Filter-Id   OctetString   29.345   3806   MAC-Address   UTF8String   341   3808   Operating-Channel   Unsigned32   3809   P2P-Features   Unsigned32   3800   PTOSe-App-Code   UTF8String   UTF8String   3800   PTOSE-App-Code   UTF8String   UTF8String   3800   PTOSE-App-Code   UTF8String   UTF8String   UTF8String   UTF8String   3800   PTOSE-App-Code   UTF8String   UTF8String			
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.         Grouped           3701         ProSe-Subscription-Data         Grouped           3702         ProSe-Permission         Unsigned32           3703         ProSe-Allowed-PLMN         Grouped           3704         ProSe-Direct-Allowed         Unsigned32           3705         UPR-Flags         Unsigned32           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         Unsigned32           3804         Discovery-Type         Unsigned32           3805         Filter-Id         OctetString         29.345           3806         MAC-Address         UTF8String			
3611         Banned-User-Target         Grouped           3612         Metadata-Indicator         Unsigned32           Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343.         Grouped           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         [33]           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.         UTF8String           3801         Assistance-info         Grouped           3802         Assistance-info         Unsigned32           3803         Assistance-info-Validity-Timer         Unsigned32           3804         Discovery-Type         Unsigned32           3805         Filter-Id         OctetString         29.345           3806         MAC-Address         UTF8String         [34]			
3612         Metadata-Indicator         Unsigned32           Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343.         Grouped           3701         ProSe-Subscription-Data         Grouped           3702         ProSe-Permission         Unsigned32           3703         ProSe-Allowed-PLMN         Grouped           3704         ProSe-Direct-Allowed         Unsigned32           3705         UPR-Flags         Unsigned32           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           3806         Filter-Id         OctetString         29.345           3807         Match-Report         Grouped         3808           3808         Poperating-Channel         Unsigned32           3809         P2P-Features         Unsigned32			
Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343.         Grouped           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         [33]           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           3801 App-Layer-User-Id         UTF8String           3802 Assistance-info         Grouped           3803 Assistance-info-Validity-Timer         Unsigned32           3804 Discovery-Type         Unsigned32           3805 Filter-Id         OctetString         29.345           3806 MAC-Address         UTF8String         [34]           3807 Match-Report         Grouped           3808 Operating-Channel         Unsigned32           3809 P2P-Features         Unsigned32           3801 ProSe-App-Code         UTF8String			
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         [33]           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.         UTF8String           3801         App-Layer-User-Id         UTF8String           3802         Assistance-Info-Validity-Timer         Unsigned32           3804         Discovery-Type         Unsigned32           3805         Filter-Id         OctetString         29.345           3806         MAC-Address         UTF8String         [34]           3807         Match-Report         Grouped         3808           3808         Operating-Channel         Unsigned32           3809         P2P-Features         Unsigned32           3810         ProSe-App-Code         UTF8String		Orisignedoz	
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         [33]           3707         ProSe-Initial-Location-Information         Grouped         3708         Unsigned32         Unsigned32           Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344.         3800         Reserved         UTF8String         3801         App-Layer-User-Id         UTF8String         4802         Assistance-Info         Grouped         3803         Assistance-Info-Validity-Timer         Unsigned32         3804         Discovery-Type         Unsigned32         29.345         3806         MAC-Address         UTF8String         [34]         3807         Match-Report         Grouped         3808         Operating-Channel         Unsigned32         3809         P2P-Features         Unsigned32         3810         ProSe-App-Code         UTF8String         UTF8String         UTF8String         3810         ProSe-App-Code         UTF8String         UTF8String         UTF8String         UTF8String         UTF8String         UTF8String         UTF8String		Grouped	
3703         ProSe-Allowed-PLMN         Grouped           3704         ProSe-Direct-Allowed         Unsigned32         29.344           3705         UPR-Flags         Unsigned32         [33]           3706         PNR-Flags         Unsigned32         [33]           3707         ProSe-Initial-Location-Information         Grouped         370           3708         Authorized-Discovery-Range         Unsigned32           Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344.         3800           3800         Reserved         UTF8String           3801         App-Layer-User-Id         UTF8String           3802         Assistance-Info         Grouped           3803         Assistance-Info-Validity-Timer         Unsigned32           3804         Discovery-Type         Unsigned32           3805         Filter-Id         OctetString         29.345           3806         MAC-Address         UTF8String         [34]           3807         Match-Report         Grouped           3808         Operating-Channel         Unsigned32           3809         P2P-Features         Unsigned32           3810         ProSe-App-Code         UTF8String			<del></del>
3704         ProSe-Direct-Allowed         Unsigned32         29.344           3705         UPR-Flags         Unsigned32         [33]           3706         PNR-Flags         Unsigned32         [33]           3707         ProSe-Initial-Location-Information         Grouped         Unsigned32         [38]           Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344.         [3800         Reserved         UTF8String         [3801         App-Layer-User-Id         UTF8String         [3802         Assistance-Info         Grouped         3803         Assistance-Info-Validity-Timer         Unsigned32         Unsigned32         29.345         3804         Discovery-Type         Unsigned32         29.345         3806         MAC-Address         UTF8String         [34]         3807         Match-Report         Grouped         3808         Operating-Channel         Unsigned32         3809         P2P-Features         Unsigned32         3810         ProSe-App-Code         UTF8String         UTF8String         3810         ProSe-App-Code         UTF8String         UTF8String         OTH         TERM TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYPE			<del> </del>
3705   UPR-Flags			20.244
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           3801         App-Layer-User-Id         UTF8String           3802         Assistance-info         Grouped           3803         Assistance-Info-Validity-Timer         Unsigned32           3804         Discovery-Type         Unsigned32           3805         Filter-Id         OctetString         29.345           3806         MAC-Address         UTF8String         [34]           3807         Match-Report         Grouped           3808         Operating-Channel         Unsigned32           3809         P2P-Features         Unsigned32           3810         ProSe-App-Code         UTF8String			
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           3800         Reserved         UTF8String           3801         App-Layer-User-Id         UTF8String           3802         Assistance-info         Grouped           3803         Assistance-Info-Validity-Timer         Unsigned32           3804         Discovery-Type         Unsigned32           3805         Filter-Id         OctetString         29.345           3806         MAC-Address         UTF8String         [34]           3807         Match-Report         Grouped           3808         Operating-Channel         Unsigned32           3809         P2P-Features         Unsigned32           3810         ProSe-App-Code         UTF8String			[၁၁]
3708         Authorized-Discovery-Range         Unsigned32           Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344.         3800           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         29.345           3806         MAC-Address         UTF8String         [34]           3807         Match-Report         Grouped           3808         Operating-Channel         Unsigned32           3809         P2P-Features         Unsigned32           3810         ProSe-App-Code         UTF8String			<del> </del>
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         29.345           3806 MAC-Address         UTF8String         [34]           3807 Match-Report         Grouped           3808 Operating-Channel         Unsigned32           3809 P2P-Features         Unsigned32           3810 ProSe-App-Code         UTF8String			<del> </del>
3800 Reserved         UTF8String           3801 App-Layer-User-Id         UTF8String           3802 Assistance-info         Grouped           3803 Assistance-Info-Validity-Timer         Unsigned32           3804 Discovery-Type         Unsigned32           3805 Filter-Id         OctetString         29.345           3806 MAC-Address         UTF8String         [34]           3807 Match-Report         Grouped           3808 Operating-Channel         Unsigned32           3809 P2P-Features         Unsigned32           3810 ProSe-App-Code         UTF8String		Unsigned32	
3801 App-Layer-User-Id         UTF8String           3802 Assistance-info         Grouped           3803 Assistance-Info-Validity-Timer         Unsigned32           3804 Discovery-Type         Unsigned32           3805 Filter-Id         OctetString         29.345           3806 MAC-Address         UTF8String         [34]           3807 Match-Report         Grouped           3808 Operating-Channel         Unsigned32           3809 P2P-Features         Unsigned32           3810 ProSe-App-Code         UTF8String			
3802         Assistance-info         Grouped           3803         Assistance-Info-Validity-Timer         Unsigned32           3804         Discovery-Type         Unsigned32           3805         Filter-Id         OctetString         29.345           3806         MAC-Address         UTF8String         [34]           3807         Match-Report         Grouped           3808         Operating-Channel         Unsigned32           3809         P2P-Features         Unsigned32           3810         ProSe-App-Code         UTF8String		LITEOU:	<del> </del>
3803         Assistance-Info-Validity-Timer         Unsigned32           3804         Discovery-Type         Unsigned32           3805         Filter-Id         OctetString         29.345           3806         MAC-Address         UTF8String         [34]           3807         Match-Report         Grouped           3808         Operating-Channel         Unsigned32           3809         P2P-Features         Unsigned32           3810         ProSe-App-Code         UTF8String			<del> </del>
3804 Discovery-Type         Unsigned32           3805 Filter-Id         OctetString         29.345           3806 MAC-Address         UTF8String         [34]           3807 Match-Report         Grouped           3808 Operating-Channel         Unsigned32           3809 P2P-Features         Unsigned32           3810 ProSe-App-Code         UTF8String			<del> </del>
3805         Filter-Id         OctetString         29.345           3806         MAC-Address         UTF8String         [34]           3807         Match-Report         Grouped           3808         Operating-Channel         Unsigned32           3809         P2P-Features         Unsigned32           3810         ProSe-App-Code         UTF8String			<del></del>
3806 MAC-Address         UTF8String         [34]           3807 Match-Report         Grouped           3808 Operating-Channel         Unsigned32           3809 P2P-Features         Unsigned32           3810 ProSe-App-Code         UTF8String			
3807 Match-Report         Grouped           3808 Operating-Channel         Unsigned32           3809 P2P-Features         Unsigned32           3810 ProSe-App-Code         UTF8String			
3808 Operating-Channel         Unsigned32           3809 P2P-Features         Unsigned32           3810 ProSe-App-Code         UTF8String			[34]
3809 P2P-FeaturesUnsigned323810 ProSe-App-CodeUTF8String			
3810 ProSe-App-Code UTF8String			
3810 ProSe-App-Code UTF8String			
	3811 ProSe-App-Id	UTF8String	

	ProSe-App-Mask	UTF8String	1
	ProSe-Discovery-Filter	Grouped	1
	PRR-Flags	Unsigned32	1
	ProSe-Validity-Timer	Unsigned32	1
	Requesting-EPUID	UTF8String	1
	Targeted-EPUID	UTF8String	1
	Time-Window	Unsigned32	1
	WiFi-P2P-Assistance-Info	Grouped	1
	WLAN-Assistance-Info	Grouped	1
	WLAN-Link-Layer-Id	OctetString	1
	WLAN-Link-Layer-Id-List	Grouped	1
	Location-Update-Trigger	Grouped	1
	Location-Update-Event-Type	Unsigned32	1
	Change-Of-Area-Type	Grouped	1
	Location-Update-Event-Trigger	Unsigned32	1
	Report-Cardinality	Enumerated	<u> </u>
	Minimum-Interval-Time	Unsigned32	<u> </u>
	Periodic-Location-Type	Grouped	1
	Location-Report-Interval-Time	Unsigned32	1
	Total-Number-Of-Reports	Unsigned32	1
	Validity-Time-Announce	Unsigned32	
	Validity-Time-Monitor	Unsigned32	
	Validity-Time-Communication	Unsigned32	1
	ProSe-App-Code-Info	Grouped	
3836		OctetString	1
	UTC-based-Counter	Unsigned32	1
	ProSe-Match-Refresh-Timer	Unsigned32	1
	ProSe-Metadata-Index-Mask	OctetString	1
	App-Identifier	Grouped	<u> </u>
	OS-ID	OctetString	1
	OS-App-ID	UTF8String	1
	Requesting-RPAUID	UTF8String	1
	Target-RPAUID	UTF8String	1
	Target-PDUID	OctetString	1
	ProSe-Restricted-Code	OctetString	1
	ProSe-Restricted-Code-Suffix-Range	OctetString	1
	Beginning-Suffix	OctetString	1
	Ending-Suffix	OctetString	1
	Discovery-Entry-ID	Unsigned32	1
	Match-Timestamp	Time	1
	PMR-Flags	Unsigned32	<u> </u>
	ProSe-Application-Metadata	UTF8String	1
	Discovery-Auth-Request	Grouped	1
	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	1
	DUSK	OctetString	1
	DUIK	OctetString	1
	DUCK	OctetString	
	MIC-Check-indicator	Unsigned32	1
	Encrypted-Bitmask	OctetString	1
	ProSe-App-Code-Suffix-Range	OctetString	
	The AVP codes from 3868 to 3899 are reserved for TS 29.345.		
	Reserved		1
	Enhanced-Diagnostics	Grouped	1
	Inter-UE-Transfer	Enumerated	1
	TWAG-Address	Address	32.299 [5]
	Announcement-Information	Grouped	32.200 [0]
	Announcement-Identifier	Unsigned32	1
	Announcement-Order	Unsigned32	1
3907	Variable-Part	Grouped	

	Variable Dark Order	111	
	Variable-Part-Order	Unsigned32	<del></del>
	Variable-Part-Type	Unsigned32	<del> </del>
	Variable-Part-Value	UTF8String	_
	Time-Indicator	Unsigned32	<del>- </del>
	Quota-Indicator Play-Alternative	Enumerated	_
	Language	Enumerated UTF8String	_
		Enumerated	_
	Privacy-Indicator Called-Identity	UTF8String	$\dashv$
	Called-Identity  Called-Identity-Change	Grouped	$\dashv$
	UWAN-User-Location-Info	Grouped	<del> </del>
	Monitoring-Event-Configuration-Activity	Integer32	<del> </del>
3030	Monitoring-Event-Report-Data	Grouped	_
	Monitoring-Event-Information	Grouped	-
	Monitoring-Event-Functionality	Integer32	<del></del>
	Monitoring-Event-Report-Number	Unsigned32	<del></del>
	Cellular-Network-Information	OctetString	
	Related-Change-Condition-Information	Grouped	
	Related-Trigger	Grouped	<del>- </del>
	CPDT-Information	Grouped	<del>- </del>
	NIDD-Submission	Grouped	_
	Serving-Node-Identity	DiameterIdentity	
	CP-CIoT-EPS-Optimisation-Indicator	Enumerated	_
	SGi-PtP-Tunnelling-Method	Enumerated	_
	UNI-PDU-CP-Only-Flag	Enumerated	7
	APN-Rate-Control	Grouped	
	APN-Rate-Control-Downlink	Grouped	
	APN-Rate-Control-Uplink	Grouped	
	Additional-Exception-Reports	Enumerated	
	Rate-Control-Max-Message-Size	Unsigned32	
3938	Rate-Control-Max-Rate	Unsigned32	
	Rate-Control-Time-Unit	Unsigned32	
3940	SCS-AS-Address	Grouped	
	SCS-Address	Address	
	SCS-Realm	DiameterIdentity	
		•	
	The AVP codes from 3943 to 3999 are reserved for TS 32.299.		
4000	Aggregated-Congestion-Info	Grouped	
4000 4001	Aggregated-Congestion-Info Aggregated-RUCI-Report	Grouped	
4000 4001 4002	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition	Grouped Grouped	
4000 4001 4002 4003	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range	Grouped Grouped Unsigned32	
4000 4001 4002 4003 4004	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id	Grouped Grouped Unsigned32 Unsigned32	
4000 4001 4002 4003 4004 4005	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value	Grouped Grouped Unsigned32 Unsigned32 Unsigned32	
4000 4001 4002 4003 4004 4005 4006	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped	29.217
4000 4001 4002 4003 4004 4005 4006 4007	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32	29.217
4000 4001 4002 4003 4004 4005 4006 4007 4008	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString	<del></del>
4000 4001 4002 4003 4004 4005 4006 4007 4008 4009	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Grouped Unsigned32 OctetString OctetString	<del></del>
4000 4001 4002 4003 4004 4005 4006 4007 4008 4009 4010	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity	<del></del>
4000 4001 4002 4003 4004 4005 4006 4007 4008 4009 4010 4011	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity Unsigned32	<del></del>
4000 4001 4002 4003 4004 4005 4006 4007 4008 4009 4010 4011 4012	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity Unsigned32 Unsigned32 Unsigned32 Unsigned32	<del></del>
4000 4001 4002 4003 4004 4005 4006 4007 4008 4009 4010 4011 4012 4013	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action Extended-eNodeB-ID	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity Unsigned32	<del></del>
4000 4001 4002 4003 4004 4005 4006 4007 4008 4009 4010 4011 4012 4013 Note:	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action Extended-eNodeB-ID The AVP codes from 4014 to 4099 are reserved for TS 29.217.	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString OiameterIdentity Unsigned32 Unsigned32 OctetString OiameterIdentity Unsigned32 OctetString	[35]
4000 4001 4002 4003 4004 4005 4006 4007 4008 4009 4010 4011 4012 4013 Note: 4101	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action Extended-eNodeB-ID The AVP codes from 4014 to 4099 are reserved for TS 29.217. Network-Congestion-Area-Report	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity Unsigned32 Unsigned32 Grouped Unsigned32 Grouped Grouped	[35]
4000 4001 4002 4003 4004 4005 4006 4007 4008 4009 4010 4011 4012 4013 Note: 4101 4102	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action Extended-eNodeB-ID The AVP codes from 4014 to 4099 are reserved for TS 29.217. Network-Congestion-Area-Report Ns-Request-Type	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString OiameterIdentity Unsigned32 Unsigned32 OctetString OiameterIdentity Unsigned32 OctetString	[35]
4000 4001 4002 4003 4004 4005 4006 4007 4008 4010 4011 4012 4013 Note: 4101 4102 Note:	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action Extended-eNodeB-ID The AVP codes from 4014 to 4099 are reserved for TS 29.217. Network-Congestion-Area-Report Ns-Request-Type The AVP codes from 4103 to 4199 are reserved for TS 29.153.	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity Unsigned32 Unsigned32 Grouped Unsigned32 Unsigned32 Unsigned32 OctetString	[35]
4000 4001 4002 4003 4004 4005 4006 4007 4008 4010 4011 4012 4013 Note: 4101 4102 Note: 4201	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action Extended-eNodeB-ID The AVP codes from 4014 to 4099 are reserved for TS 29.217. Network-Congestion-Area-Report Ns-Request-Type The AVP codes from 4103 to 4199 are reserved for TS 29.153. Network-Area-Info-List	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity Unsigned32 Unsigned32 CotetString Grouped Unsigned32 Unsigned32 OctetString	[35]
4000 4001 4002 4003 4004 4005 4006 4007 4008 4010 4011 4012 4013 Note: 4101 4102 Note: 4201 4202	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action Extended-eNodeB-ID The AVP codes from 4014 to 4099 are reserved for TS 29.217. Network-Congestion-Area-Report Ns-Request-Type The AVP codes from 4103 to 4199 are reserved for TS 29.153. Network-Area-Info-List Reference-Id	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity Unsigned32 Unsigned32 OctetString  Grouped Unsigned32 OctetString	[35]
4000 4001 4002 4003 4004 4005 4006 4007 4008 4010 4011 4012 4013 Note: 4101 4102 Note: 4201 4202 4203	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action Extended-eNodeB-ID The AVP codes from 4014 to 4099 are reserved for TS 29.217. Network-Congestion-Area-Report Ns-Request-Type The AVP codes from 4103 to 4199 are reserved for TS 29.153. Network-Area-Info-List Reference-Id Transfer-Request-Type	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity Unsigned32 OctetString Grouped Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Unsigned32 OctetString Unsigned32	[35] 29.153 [37]
4000 4001 4002 4003 4004 4005 4006 4007 4008 4010 4011 4012 4013 Note: 4101 4102 Note: 4201 4202 4203 4204	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action Extended-eNodeB-ID The AVP codes from 4014 to 4099 are reserved for TS 29.217. Network-Congestion-Area-Report Ns-Request-Type The AVP codes from 4103 to 4199 are reserved for TS 29.153. Network-Area-Info-List Reference-Id Transfer-Request-Type Time-Window	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity Unsigned32 Unsigned32 OctetString  Grouped Unsigned32 OctetString  Grouped Unsigned32 OctetString Grouped Unsigned32 OctetString Grouped Unsigned32 OctetString OctetString OctetString OctetString OctetString Unsigned32 Grouped	29.153 [37] 29.154
4000 4001 4002 4003 4004 4005 4006 4007 4008 4010 4011 4012 4013 Note: 4101 4102 Note: 4201 4202 4203 4204 4205	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action Extended-eNodeB-ID The AVP codes from 4014 to 4099 are reserved for TS 29.217. Network-Congestion-Area-Report Ns-Request-Type The AVP codes from 4103 to 4199 are reserved for TS 29.153. Network-Area-Info-List Reference-Id Transfer-Request-Type Time-Window Transfer-End-Time	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity Unsigned32 OctetString  Grouped Unsigned32 OctetString  OctetString  Grouped Unsigned32  Grouped Unsigned32	[35] 29.153 [37]
4000 4001 4002 4003 4004 4005 4006 4007 4008 4010 4011 4012 4013 Note: 4101 4102 Note: 4201 4202 4203 4204 4205 4206	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action Extended-eNodeB-ID The AVP codes from 4014 to 4099 are reserved for TS 29.217. Network-Congestion-Area-Report Ns-Request-Type The AVP codes from 4103 to 4199 are reserved for TS 29.153. Network-Area-Info-List Reference-Id Transfer-Request-Type Time-Window Transfer-End-Time Transfer-Start-Time	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity Unsigned32 OctetString  Grouped Unsigned32 OctetString  OctetString  Grouped Unsigned32  Grouped Unsigned32  Time Time	29.153 [37] 29.154
4000 4001 4002 4003 4004 4005 4006 4007 4008 4009 4010 4011 4012 4013 Note: 4101 4102 Note: 4201 4202 4203 4204 4205 4206 4207	Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action Extended-eNodeB-ID The AVP codes from 4014 to 4099 are reserved for TS 29.217. Network-Congestion-Area-Report Ns-Request-Type The AVP codes from 4103 to 4199 are reserved for TS 29.153. Network-Area-Info-List Reference-Id Transfer-Request-Type Time-Window Transfer-End-Time Transfer-Start-Time Transfer-Policy	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity Unsigned32 OctetString  Grouped Unsigned32 OctetString  Grouped Unsigned32 Time Time Grouped Grouped	29.153 [37] 29.154
4000 4001 4002 4003 4004 4005 4006 4007 4008 4009 4010 4011 4012 4013 Note: 4101 4102 Note: 4201 4202 4203 4204 4205 4206 4207 4208	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action Extended-eNodeB-ID The AVP codes from 4014 to 4099 are reserved for TS 29.217. Network-Congestion-Area-Report Ns-Request-Type The AVP codes from 4103 to 4199 are reserved for TS 29.153. Network-Area-Info-List Reference-Id Transfer-Request-Type Time-Window Transfer-End-Time Transfer-Start-Time	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity Unsigned32 OctetString Grouped Unsigned32 OctetString  Grouped Unsigned32 Time Grouped Unsigned32 Grouped Time Time Grouped Unsigned32	29.153 [37] 29.154
4000 4001 4002 4003 4004 4005 4006 4007 4008 4009 4010 4011 4012 4013 Note: 4101 4102 Note: 4201 4202 4203 4204 4206 4207 4208 4209	Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action Extended-eNodeB-ID The AVP codes from 4014 to 4099 are reserved for TS 29.217. Network-Congestion-Area-Report Ns-Request-Type The AVP codes from 4103 to 4199 are reserved for TS 29.153. Network-Area-Info-List Reference-Id Transfer-Request-Type Time-Window Transfer-End-Time Transfer-Policy-Id	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity Unsigned32 OctetString  Grouped Unsigned32 OctetString  Grouped Unsigned32 Time Time Grouped Grouped	29.153 [37] 29.154
4000 4001 4002 4003 4004 4005 4006 4007 4008 4009 4010 4011 4012 4013 Note: 4101 4102 Note: 4201 4202 4203 4204 4206 4207 4208 4209 Note:	Aggregated-Congestion-Info Aggregated-RUCI-Report Congestion-Level-Definition Congestion-Level-Range Congestion-Level-Set-Id Congestion-Level-Value Congestion-Location-Id Conditional-Restriction eNodeB-Id IMSI-List RCAF-Id Reporting-Restriction RUCI-Action Extended-eNodeB-ID The AVP codes from 4014 to 4099 are reserved for TS 29.217. Network-Congestion-Area-Report Ns-Request-Type The AVP codes from 4103 to 4199 are reserved for TS 29.153. Network-Area-Info-List Reference-Id Transfer-Request-Type Time-Window Transfer-End-Time Transfer-Start-Time Transfer-Policy Transfer-Policy-Id Number-Of-UEs	Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 OctetString OctetString DiameterIdentity Unsigned32 OctetString Grouped Unsigned32 OctetString  Grouped Unsigned32 Time Grouped Unsigned32 Grouped Time Time Grouped Unsigned32	29.153 [37] 29.154

29.128
[36]
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32.299 [5]
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[39]
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[39]
29.388
29.388 [40]
29.388

## 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	Note: The Experimental Result Codes from 2401 to 2420 are reserved for the TS 29.109.							

#### 8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

	rimental It Code	Result text		Specified in the TS
	100	DIAMETER_USER_DATA_NOT_AVAILABLE	·	29.329 [4]
41	-	DIAMETER_PRIOR_UPDATE_IN_PROGRESS		
Note: Th		ntal Result Codes from 4102 to 4120 are reserved for the TS 29	.329.	
		DIAMETER_ERROR_OUT_OF_RESOURCES		29.061 [13]
Note: Th	e Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29	.061.	
<u>-</u>	141	DIAMETER_PCC_BEARER_EVENT		
4	142	DIAMETER_BEARER_EVENT		29.212 [19]
	143	DIAMETER_AN_GW_FAILED		29.212[19]
	144	DIAMETER_PENDING_TRANSACTION		
Note: Th	e Experime	ntal Result Codes from 4145 to 4160 are reserved for the TS 29	.212	
				32.299 [5]
Note: Th	e Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32	.299.	
4181		ER_AUTHENTICATION_DATA_UNAVAILABLE	,	29.272 [21]
4182	DIAMETE	ER_ERROR_CAMEL_SUBSCRIPTION_PRESENT		29.272 [21]
Note: The Experim	nental Resu	It Codes from 4182 to 4200 are reserved for the TS 29.272.		
4201		ER_ERROR_ABSENT_USER	2	29.173 [25]
Note: The Experim	nental Resu	It Codes from 4202 to 4220 are reserved for the TS 29.173.		
4221		ER_ERROR_UNREACHABLE_USER		
4222	DIAMETE	ER_ERROR_SUSPENDED_USER		
4223		ER_ERROR_DETACHED_USER	,	29.172 [24]
4224	DIAMETE	ER_ERROR_POSITIONING_DENIED	2	29.172 [24]
4225		ER_ERROR_POSITIONING_FAILED		
4226	DIAMETE	ER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT		
Note: The Experim		It Codes from 4227 to 4240 are reserved for the TS 29.172.		
4241		ER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	2	29.219 [26]
Note: The Experim		It Codes from 4242 to 4260 are reserved for the TS 29.219.		
4261		TED_SERVICE_TEMPORARILY_NOT_AUTHORIZED	2	29.214 [18]
Note: The Experim	nental Resu	It Codes from 4262 to 4280 are reserved for the TS 29.214.		

#### 8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

5001   DIAMETER_ERROR_USER_UNKNOWN	Experimental Result Code		Specified in the TS
S003   DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	5001		
DIAMETER_ERROR_ROAMING_NOT_ALLOWED	5002		
DIAMETER_ERROR_ROAMING_NOT_ALLOWED			
5006   DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	5004		
5006   DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
S008   DIAMETER_ERROR_TOO_MUCH_DATA	5006		
DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5010	5008	DIAMETER_ERROR_TOO_MUCH_DATA	
DIAMETER_ERROR_FEATURE_UNSUPPORTED	5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
Note: The Experimental Result Codes from 5013 to 5020 are reserved for the TS 29.229.   Solution   Solution	5010		
Note: The Experimental Result Codes from 5013 to 5020 are reserved for the TS 29.229.   Solution   Solution	5011	DIAMETER ERROR FEATURE UNSUPPORTED	
Note: The Experimental Result Codes from 5021 to 5040 are reserved for the TS 32.299.   So41		DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUPP	
Note: The Experimental Result Codes from 5021 to 5040 are reserved for the TS 32.299.	Note: The Expe	rimental Result Codes from 5013 to 5020 are reserved for the TS	S 29.229.
5041 DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION 5042 DIAMETER_ERROR_W-APN_UNUSED_BY_USER 5043 DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC RIPTION 5044 DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION 5045 DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION 5045 DIAMETER_ERROR_USUITABLE_NETWORK  Note: The Experimental Result Codes from 5046 to 5060 are reserved for the TS 29.234.  5061 INVALID_SERVICE_INFORMATION 5062 FILTER_RESTRICTIONS 5063 REQUESTED_SERVICE_NOT_AUTHORIZED 5064 DUPLICATED_AF_SESSION 5065 IP-CAN_SESSION_NOT_AVAILABLE 5066 UNAUTHORIZED_NON_EMERGENCY_SESSION 5067 UNAUTHORIZED_NON_EMERGENCY_SESSION 5068 TEMPORARY_NETWORK_FAILURE  Note: The Experimental Result Codes from 5069 to 5080 are reserved for TS 29.209, TS 29.211 and TS 29.214.  5100 DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED 5101 DIAMETER_ERROR_OPERATION_NOT_ALLOWED 5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5103 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5105 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5106 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5107 DIAMETER_ERROR_SUBS_DATA_ABSENT 5107 DIAMETER_ERROR_SUBS_DATA_ABSENT 5108 DIAMETER_ERROR_DSAI_NOT_AVAILABLE			
5041 DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION 5042 DIAMETER_ERROR_W-APN_UNUSED_BY_USER 5043 DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC RIPTION 5044 DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION 5045 DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION 5045 DIAMETER_ERROR_USUITABLE_NETWORK  Note: The Experimental Result Codes from 5046 to 5060 are reserved for the TS 29.234.  5061 INVALID_SERVICE_INFORMATION 5062 FILTER_RESTRICTIONS 5063 REQUESTED_SERVICE_NOT_AUTHORIZED 5064 DUPLICATED_AF_SESSION 5065 IP-CAN_SESSION_NOT_AVAILABLE 5066 UNAUTHORIZED_NON_EMERGENCY_SESSION 5067 UNAUTHORIZED_NON_EMERGENCY_SESSION 5068 TEMPORARY_NETWORK_FAILURE  Note: The Experimental Result Codes from 5069 to 5080 are reserved for TS 29.209, TS 29.211 and TS 29.214.  5100 DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED 5101 DIAMETER_ERROR_OPERATION_NOT_ALLOWED 5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5103 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5105 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5106 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5107 DIAMETER_ERROR_SUBS_DATA_ABSENT 5107 DIAMETER_ERROR_SUBS_DATA_ABSENT 5108 DIAMETER_ERROR_DSAI_NOT_AVAILABLE	Note: The Expe	erimental Result Codes from 5021 to 5040 are reserved for the TS	S 32.299.
5043 DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC RIPTION  5044 DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION 5045 DIAMETER_ERROR_UNSUITABLE_NETWORK  Note: The Experimental Result Codes from 5046 to 5060 are reserved for the TS 29.234.  5061 INVALID_SERVICE_INFORMATION 5062 FILTER_RESTRICTIONS 5063 REQUESTED_SERVICE_NOT_AUTHORIZED 5064 DUPLICATED_AF_SESSION 5065 IP-CAN_SESSION_NOT_AVAILABLE 5066 UNAUTHORIZED_NON_EMERGENCY_SESSION 5067 UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY 5068 TEMPORARY_NETWORK_FAILURE  Note: The Experimental Result Codes from 5069 to 5080 are reserved for TS 29.209, TS 29.211 and TS 29.214.  5100 DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED 5101 DIAMETER_ERROR_OPERATION_NOT_ALLOWED 5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5105 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5106 DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC 5106 DIAMETER_ERROR_SUBS_DATA_ABSENT 5107 DIAMETER_ERROR_DOSAI_NOT_AVAILABLE		DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
RIPTION  5044 DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION 5045 DIAMETER_ERROR_UNSUITABLE_NETWORK  Note: The Experimental Result Codes from 5046 to 5060 are reserved for the TS 29.234.  5061 INVALID_SERVICE_INFORMATION 5062 FILTER_RESTRICTIONS 5063 REQUESTED_SERVICE_NOT_AUTHORIZED 5064 DUPLICATED_AF_SESSION 5065 IP-CAN_SESSION_NOT_AVAILABLE 5066 UNAUTHORIZED_NON_EMERGENCY_SESSION 5067 UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY 5068 TEMPORARY_NETWORK_FAILURE  Note: The Experimental Result Codes from 5069 to 5080 are reserved for TS 29.209, TS 29.211 and TS 29.214.  5100 DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED 5101 DIAMETER_ERROR_OPERATION_NOT_ALLOWED 5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5105 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5106 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	5042		
DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	5043		29.234 [6]
Note: The Experimental Result Codes from 5046 to 5060 are reserved for the TS 29.234.   So61	5044		
Note: The Experimental Result Codes from 5046 to 5060 are reserved for the TS 29.234.    5061   INVALID_SERVICE_INFORMATION     5062   FILTER_RESTRICTIONS     5063   REQUESTED_SERVICE_NOT_AUTHORIZED     5064   DUPLICATED_AF_SESSION     5065   IP-CAN_SESSION_NOT_AVAILABLE     5066   UNAUTHORIZED_NON_EMERGENCY_SESSION     5067   UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY     5068   TEMPORARY_NETWORK_FAILURE     Note: The Experimental Result Codes from 5069 to 5080 are reserved for TS 29.209, TS 29.211     and TS 29.214.     5100   DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED     5101   DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ     5102   DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ     5103   DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED     5104   DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED     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			
5061 INVALID_SERVICE_INFORMATION 5062 FILTER_RESTRICTIONS 5063 REQUESTED_SERVICE_NOT_AUTHORIZED 5064 DUPLICATED_AF_SESSION 5065 IP-CAN_SESSION_NOT_AVAILABLE 5066 UNAUTHORIZED_NON_EMERGENCY_SESSION 5067 UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY 5068 TEMPORARY_NETWORK_FAILURE  Note: The Experimental Result Codes from 5069 to 5080 are reserved for TS 29.209, TS 29.211 and TS 29.214.  5100 DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED 5101 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5103 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5105 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5106 DIAMETER_ERROR_USER_DATA_ABSENT 5107 DIAMETER_ERROR_SUBS_DATA_ABSENT 5108 DIAMETER_ERROR_DSAI_NOT_AVAILABLE			S 29.234.
5062 FILTER_RESTRICTIONS 5063 REQUESTED_SERVICE_NOT_AUTHORIZED 5064 DUPLICATED_AF_SESSION 5065 IP-CAN_SESSION_NOT_AVAILABLE 5066 UNAUTHORIZED_NON_EMERGENCY_SESSION 5067 UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY 5068 TEMPORARY_NETWORK_FAILURE  Note: The Experimental Result Codes from 5069 to 5080 are reserved for TS 29.209, TS 29.211 and TS 29.214.  5100 DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED 5101 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5103 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5105 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5106 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5107 DIAMETER_ERROR_SUBS_DATA_ABSENT 5107 DIAMETER_ERROR_SUBS_DATA_ABSENT 5108 DIAMETER_ERROR_DSAI_NOT_AVAILABLE		INVALID_SERVICE_INFORMATION	
5063 REQUESTED_SERVICE_NOT_AUTHORIZED 5064 DUPLICATED_AF_SESSION 5065 IP-CAN_SESSION_NOT_AVAILABLE 5066 UNAUTHORIZED_NON_EMERGENCY_SESSION 5067 UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY 5068 TEMPORARY_NETWORK_FAILURE  Note: The Experimental Result Codes from 5069 to 5080 are reserved for TS 29.209, TS 29.211 and TS 29.214. 5100 DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED 5101 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5103 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5105 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5106 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			
5064 DUPLICATED_AF_SESSION 5065 IP-CAN_SESSION_NOT_AVAILABLE 5066 UNAUTHORIZED_NON_EMERGENCY_SESSION 5067 UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY 5068 TEMPORARY_NETWORK_FAILURE  Note: The Experimental Result Codes from 5069 to 5080 are reserved for TS 29.209, TS 29.211 and TS 29.214. 5100 DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED 5101 DIAMETER_ERROR_OPERATION_NOT_ALLOWED 5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5103 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5105 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5106 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	5063		00 000 101
5065 IP-CAN_SESSION_NOT_AVAILABLE 5066 UNAUTHORIZED_NON_EMERGENCY_SESSION 5067 UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY 5068 TEMPORARY_NETWORK_FAILURE  Note: The Experimental Result Codes from 5069 to 5080 are reserved for TS 29.209, TS 29.211 and TS 29.214.  5100 DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED 5101 DIAMETER_ERROR_OPERATION_NOT_ALLOWED 5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5103 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 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	5064		
5066 UNAUTHORIZED_NON_EMERGENCY_SESSION 5067 UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY 5068 TEMPORARY_NETWORK_FAILURE  Note: The Experimental Result Codes from 5069 to 5080 are reserved for TS 29.209, TS 29.211 and TS 29.214.  5100 DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED 5101 DIAMETER_ERROR_OPERATION_NOT_ALLOWED 5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5103 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5105 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5106 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			
5067 UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY 5068 TEMPORARY_NETWORK_FAILURE  Note: The Experimental Result Codes from 5069 to 5080 are reserved for TS 29.209, TS 29.211 and TS 29.214.  5100 DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED 5101 DIAMETER_ERROR_OPERATION_NOT_ALLOWED 5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5103 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5105 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5106 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			29.214 [18]
Temporary_Network_Failure			
Note: The Experimental Result Codes from 5069 to 5080 are reserved for TS 29.209, TS 29.211 and TS 29.214.  5100 DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED  5101 DIAMETER_ERROR_OPERATION_NOT_ALLOWED  5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ  5103 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED  5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED  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			
and TS 29.214.  5100 DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED  5101 DIAMETER_ERROR_OPERATION_NOT_ALLOWED  5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ  5103 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED  5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED  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			.209. TS 29.211
5101 DIAMETER_ERROR_OPERATION_NOT_ALLOWED 5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5103 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5105 DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC 5106 DIAMETER_ERROR_SUBS_DATA_ABSENT 5107 DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA 5108 DIAMETER_ERROR_DSAI_NOT_AVAILABLE	•		
5101 DIAMETER_ERROR_OPERATION_NOT_ALLOWED 5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5103 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5105 DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC 5106 DIAMETER_ERROR_SUBS_DATA_ABSENT 5107 DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA 5108 DIAMETER_ERROR_DSAI_NOT_AVAILABLE			
5102 DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ 5103 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 5105 DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC 5106 DIAMETER_ERROR_SUBS_DATA_ABSENT 5107 DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA 5108 DIAMETER_ERROR_DSAI_NOT_AVAILABLE			
5103 DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED 5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 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			
5104 DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED 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			
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			00 000 141
OUT_OF_SYNC  5106 DIAMETER_ERROR_SUBS_DATA_ABSENT  5107 DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA  5108 DIAMETER_ERROR_DSAI_NOT_AVAILABLE			29.329 [4]
5106 DIAMETER_ERROR_SUBS_DATA_ABSENT 5107 DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA 5108 DIAMETER_ERROR_DSAI_NOT_AVAILABLE			
5107 DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA 5108 DIAMETER_ERROR_DSAI_NOT_AVAILABLE	5106		
5108 DIAMETER_ERROR_DSAI_NOT_AVAILABLE			
Note: The Experimental Result Codes from 5109 to 5119 are reserved for the TS 29.329			
		erimental Result Codes from 5109 to 5119 are reserved for the TS	S 29.329.

| 5120 | DIAMETER\_ERROR\_START\_INDICATION | 5121 | DIAMETER\_ERROR\_STOP\_INDICATION | 5122 | DIAMETER\_ERROR\_UNKNOWN\_MBMS\_BEARER\_SERVIC | E | 5123 | DIAMETER\_ERROR\_SERVICE\_AREA | 29.061 [13]

Note: The Experimental Result Codes from 5124 to 5139 are reserved for the TS 29.061. DIAMETER\_ERROR\_INITIAL\_PARAMETERS 5140 5141 DIAMETER\_ERROR\_TRIGGER\_EVENT 5142 DIAMETER\_PCC\_RULE\_EVENT 5143 DIAMETER\_ERROR\_BEARER\_NOT\_AUTHORIZED 5144 DIAMETER\_ERROR\_TRAFFIC\_MAPPING\_INFO\_REJECTE 29.212 [19] 5145 DIAMETER\_QOS\_RULE\_EVENT 5146 reserved 5147 DIAMETER\_ERROR\_CONFLICTING\_REQUEST 5148 DIAMETER\_ADC\_RULE\_EVENT DIAMETER\_ERROR\_NBIFOM\_NOT\_AUTHORIZED 5149 Note: The Experimental Result Codes from 5150 to 5159 are reserved for the TS 29.212. DIAMETER\_ERROR\_IMPI\_UNKNOWN 5401 29.109 [7 DIAMETER\_ERROR\_NOT\_AUTHORIZED 5402

5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID							
Note: The Experimental 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							
Note: The Exp	erimental Result Codes from 5424 to 5449 are reserved for the TS	S 29.272.						
5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI							
	ON							
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	20 272 [20]						
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	29.273 [20]						
5453	DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST							
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST							
Note: The Exp	erimental Result Codes from 5455 to 5469 are reserved for the TS	S 29.273.						
FATO DIAMETED EDDOD CURCECCION								

ntal Result Codes	from 5455 to 5469 are reserved for the TS 29.273.	
5470	DIAMETER_ERROR_SUBSESSION	
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME	29.215 [22]
	NT	
Note: The Exp	erimental Result Codes from 5472 to 5489 are reserved for the T	S 29.215.
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET	20 472 [25]
	WORK	29.173 [25]
Note: The Exp	erimental Result Codes from 5491 to 5509 are reserved for the T	S 29.173.
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI	
	TY	
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
5512	DIAMETER_ERROR_REQUESTED_RANGE_IS_NOT	
	ALLOWED	29.336 [28]
5513	DIAMETER_ERROR_CONFIGURATION_EVENT_STORAGE	20.000 [20]
	_NOT_SUCCESSFUL	
5514	DIAMETER_ERROR_CONFIGURATION_EVENT_NON_EXIS	
	TANT	
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	
	erimental Result Codes from 5516 to 5529 are reserved for the T	S 29.336.
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	
5531	DIAMETER_ERROR_SC_CONGESTION	
5532	DIAMETER_ERROR_SM_PROTOCOL	29.337 [29]
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	20.007 [20]
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5535	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING	
	erimental Result Codes from 5536 to 5549 are reserved for the T	S 29.337.
5550	DIAMETER_ERROR_ABSENT_USER	
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5553	DIAMETER_ERROR_ILLEGAL_USER	
5554	DIAMETER_ERROR_ILLEGAL_EQUIPMENT	29.338 [30]
5555	DIAMETER_ERROR_SM_DELIVERY_FAILURE	
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 T	
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
	Experimental Result Codes from 5571 to 5589 are reserved for	the TS 29.219.
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	
5592	DIAMETER_ERROR_PFID_UNKNOWN	
5593	DIAMETER_ERROR_APP_REGISTER_REJECT	
5594	DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE	
	D	
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	
5596	DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN	29.343 [32]
5597	DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_S	
	ET	
5598	DIAMETER_ERROR_MISSING_APPLICATION_DATA	1
5599	DIAMETER_ERROR_AUTHORIZATION_REJECT	
5600	DIAMETER_ERROR_DISCOVERY_NOT_PERMITTED	<u> </u>
5601	DIAMETER_ERROR_TARGET_RPAUID_UNKNOWN	<u> </u>
5602	DIAMETER_ERROR_INVALID_APPLICATION_DATA	

Note: The Experimental Result Codes from 5603 to 5609 are reserved for the TS 29.343.  5610 DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION 5611 DIAMETER_ERROR_PROSE_NOT_ALLOWED 5612 DIAMETER_ERROR_PROSE_NOT_ALLOWED 5612 DIAMETER_ERROR_UE_LOCATION_UNKNOWN Note: The Experimental Result Codes from 5613 to 5629 are reserved for the TS 29.344.  5630 DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER 5631 DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_PLMN 5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5635 DIAMETER_ERROR_NO_PROXIMITY_REJECTED 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_PDUID 5640 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV_ED 5651 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CODE 5651 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV_ED 5651 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV_ED 5651 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV_ED 5651 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE 5653 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE 5654 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE 5655 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE 5656 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE 5657 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5692 to 5709 are reserved for the TS 29.388 [40] Note: The Experimental Result Codes from 5692 to 5709 are reserved for the TS 29.388.			
DIAMETER_ERROR_PROSE_NOT_ALLOWED   29.344 [33]   5612   DIAMETER_ERROR_UE_LOCATION_UNKNOWN	Note: The Exp	erimental Result Codes from 5603 to 5609 are reserved for the TS	3 29.343.
DIAMETER_ERROR_UE_LOCATION_UNKNOWN	5610	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION	
Note: The Experimental Result Codes from 5613 to 5629 are reserved for the TS 29.344.	5611	DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]
DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER  5631 DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN  5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_EJECTED 5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN  5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_INVALID_TARGET_RESTRICTED_CO_DE  5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345.  5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV_ED  5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5662 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE  Note: The Experimental 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  Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 5691 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.388 [40]	5612	DIAMETER_ERROR_UE_LOCATION_UNKNOWN	
ER  5631 DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN  5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE  5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED  5634 DIAMETER_ERROR_PROXIMITY_REJECTED  5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST  5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN  5637 DIAMETER_ERROR_PROXIMITY_CANCELLED  5638 DIAMETER_ERROR_INVALID_TARGET_PDUID  5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID  5640 DIAMETER_ERROR_INVALID_TARGET_RESTRICTED_CODE  Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345.  5650 DIAMETER_ERROR_INVALID_EPS_BEARER  5651 DIAMETER_ERROR_INVALID_EPS_BEARER  5652 DIAMETER_ERROR_INVALID_EPS_BEARER  5653 DIAMETER_ERROR_INVALID_EPS_BEARER  5650 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL_E  Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128.  5670 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL_E  Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.283 [39]  Note: The Experimental Result Codes from 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED  Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128.  5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION  5691 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION  29.388 [40]	Note: The Exp	erimental Result Codes from 5613 to 5629 are reserved for the TS	\$ 29.344.
DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN  5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN  5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_PPUID 5640 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345.  5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_INVALID_EPS_BEARER 5654 DIAMETER_ERROR_INVALID_EPS_BEARER 5655 DIAMETER_ERROR_INVALID_EPS_BEARER 5650 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental 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 Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_VZX_SUBSCRIPTION 5691 DIAMETER_ERROR_UNKNOWN_VZX_SUBSCRIPTION 29.388 [40]	5630	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT	
LMN		=	
5632   DIAMETER_ERROR_INVALID_APPLICATION_CODE     5633   DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED     5634   DIAMETER_ERROR_PROXIMITY_REJECTED     5635   DIAMETER_ERROR_NO_PROXIMITY_REQUEST     5636   DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN     5637   DIAMETER_ERROR_PROXIMITY_CANCELLED     5638   DIAMETER_ERROR_INVALID_TARGET_PDUID     5639   DIAMETER_ERROR_INVALID_TARGET_RPAUID     5640   DIAMETER_ERROR_INVALID_TARGET_RPAUID     5641   DIAMETER_ERROR_INVALID_DISCOVERY_TYPE     Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345.     5650   DIAMETER_ERROR_INVALID_EPS_BEARER     5651   DIAMETER_ERROR_INVALID_EPS_BEARER     5652   DIAMETER_ERROR_INVALID_EPS_BEARER     5653   DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL     E	5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P	
5633   DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED     5634   DIAMETER_ERROR_PROXIMITY_REJECTED     5635   DIAMETER_ERROR_NO_PROXIMITY_REQUEST     5636   DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN     5637   DIAMETER_ERROR_PROXIMITY_CANCELLED     5638   DIAMETER_ERROR_INVALID_TARGET_PDUID     5639   DIAMETER_ERROR_INVALID_TARGET_RPAUID     5640   DIAMETER_ERROR_INVALID_DISCOVERY_TYPE     Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345.     5650   DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV_ED     5651   DIAMETER_ERROR_INVALID_EPS_BEARER     5652   DIAMETER_ERROR_INVALID_EPS_BEARER     5653   DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA     BLE     S663   DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL     E     Note: The Experimental 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     Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128.     5690   DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION     5691   DIAMETER_ERROR_V2X_NOT_ALLOWED     29.388 [40]		LMN	
5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_REAUID 5640 DIAMETER_ERROR_INVALID_TARGET_RESTRICTED_CODE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV_ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNERD_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 5691 DIAMETER_ERROR_V2X_NOT_ALLOWED	5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE	
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5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN  5637 DIAMETER_ERROR_PROXIMITY_CANCELLED  5638 DIAMETER_ERROR_INVALID_TARGET_PDUID  5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID  5640 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CODE  5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE  Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345.  5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV_ED  5651 DIAMETER_ERROR_INVALID_EPS_BEARER  5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE  5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL_E  Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128.  5670 DIAMETER_ERROR_UNKNKOWN_DATA 29.283 [39]  Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128.  5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 29.388 [40]	5634	DIAMETER_ERROR_PROXIMITY_REJECTED	
DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN	5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	20 245 [24]
DIAMETER_ERROR_PROXIMITY_CANCELLED	5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_	29.343 [34]
DIAMETER_ERROR_INVALID_TARGET_PDUID  5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID  5640 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO DE  5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE  Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345.  5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED  5651 DIAMETER_ERROR_INVALID_EPS_BEARER  5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE  5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E  Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128.  5670 DIAMETER_ERROR_UNKNKOWN_DATA 29.283 [39]  Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128.  5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 5691 DIAMETER_ERROR_V2X_NOT_ALLOWED		PLMN	
DIAMETER_ERROR_INVALID_TARGET_RPAUID	5637	DIAMETER_ERROR_PROXIMITY_CANCELLED	
5640 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO DE  5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE  Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345.  5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED  5651 DIAMETER_ERROR_INVALID_EPS_BEARER  5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE  5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E  Note: The Experimental 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  Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128.  5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 5691 DIAMETER_ERROR_V2X_NOT_ALLOWED	5638	DIAMETER_ERROR_INVALID_TARGET_PDUID	
DE  5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE  Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345.  5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED  5651 DIAMETER_ERROR_INVALID_EPS_BEARER  5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE  5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E  Note: The Experimental 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  Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128.  5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 5691 DIAMETER_ERROR_V2X_NOT_ALLOWED	5639	DIAMETER_ERROR_INVALID_TARGET_RPAUID	
S641   DIAMETER_ERROR_INVALID_DISCOVERY_TYPE	5640	DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO	
Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345.  5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED  5651 DIAMETER_ERROR_INVALID_EPS_BEARER  5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE  5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E  Note: The Experimental 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  Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128.  5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 5691 DIAMETER_ERROR_V2X_NOT_ALLOWED			
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5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental 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 Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 5691 DIAMETER_ERROR_V2X_NOT_ALLOWED 29.388 [40]	5650	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV	
5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE  5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E  Note: The Experimental 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  Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128.  5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION  5691 DIAMETER_ERROR_V2X_NOT_ALLOWED  29.388 [40]			
BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental 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 Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128.  5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 5691 DIAMETER_ERROR_V2X_NOT_ALLOWED 29.388 [40]	5651	DIAMETER_ERROR_INVALID_EPS_BEARER	
DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL   E	5652		29.128 [36]
E   Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128.   5670			
5670 DIAMETER_ERROR_UNKNKOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 5691 DIAMETER_ERROR_V2X_NOT_ALLOWED 29.388 [40]	5653	DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL	
5670 DIAMETER_ERROR_UNKNKOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128. 5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 5691 DIAMETER_ERROR_V2X_NOT_ALLOWED 29.388 [40]		E	
5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED  Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128.  5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 5691 DIAMETER_ERROR_V2X_NOT_ALLOWED  29.283 [39] 29.288 [40]	Note: The Exp	erimental Result Codes from 5654 to 5669 are reserved for the TS	\$ 29.128.
Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128.    5690   DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION   29.388 [40]	5670	DIAMETER_ERROR_UNKNKOWN_DATA	20 202 [20]
5690 DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION 5691 DIAMETER_ERROR_V2X_NOT_ALLOWED 29.388 [40]	5671	DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	29.203 [39]
5691 DIAMETER_ERROR_V2X_NOT_ALLOWED 29.388 [40]	Note: The Exp	erimental Result Codes from 5672 to 5689 are reserved for the TS	S 29.128.
5691   DIAMETER_ERROR_V2X_NOT_ALLOWED   1 1	5690	DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION	1011 000 00
Note: The Experimental Result Codes from 5692 to 5709 are reserved for the TS 29.388.	5691	DIAMETER_ERROR_V2X_NOT_ALLOWED	29.300 [40]
	Note: The Exp	erimental Result Codes from 5692 to 5709 are reserved for the TS	S 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

					Change history		
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292			Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25		001		Correction of Charging application reference	6.0.0	6.1.0
2004-09	CN#25	NP-040401	002		Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401	003		Removal of User Data Request Type AVP	6.0.0	6.1.0
2004-09	CN#25	NP-040412		1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26	NP-040579			Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12	CN#26		007	1	Reservation of command code 310	6.1.0	6.2.0
2004-12	CN#26		009	1	Addition of Gmb interface	6.1.0	6.2.0
2004-12	CN#26	NP-040600	010	2	Documenting the Reuse of the 3GPP specific application identifier	6.1.0	6.2.0
2004.40	CN1#00	ND 040570	044		of Ro for Re on the Charging Interfaces	040	0.00
2004-12	CN#26		011		Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26		012	4	Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047 NP-050039	040	1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
			043		Allocations for Gx interface		
		NP-050039	045		Allocations for Gmb interface		
2005-06	CT#28				Allocations for MMS, MM10 Interface	6.3.0	6.4.0
2005-06	C1#20	CP-050088 CP-050196		1	Gx interface allocation correction Addition of Maximum-Number-Accesses AVP	6.3.0	6.4.0
2005.00	CT#29			1		6.4.0	6.5.0
2005-09	C1#29	CP-050440 CP-050310		1	Private identities on the Cx Addition of Pr reference point to TS 29.230	6.4.0	6.5.0
		CP-050310			Error code cleanup		
		CP-050310	0054		Addition of Rx ref. point and renaming of Experimental Result		
		CP-050310	0056		Codes		
2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-12	CT#30	CP-050624			Addition of GBA-Type AVP	7.0.0	7.1.0
		CP-050612	0063		Additional Gmb AVP Allocation	1	
		CP-050612	0065		Reservation of AVP codes for 32.299	1	
		CP-050625	0066		Management of Sh subscriptions	1	
2006-03	CT#31	CP-060073	0069		Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
		CP-060084	0071		User-Data in the response to Sh-Subs-Notif	1	
		CP-060084	0072	1	New error indications for the Sh-Subs-Notif procedure	1	
2006-06	CT#32	CP-060302	0075		S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417	0077	3	New AVP Code	7.3.0	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		0085	1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
		CP-060562			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	7.5.0	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	7.6.0	7.7.0
		CP-070312			Experimental-Result-Codes for Gmb interface		
		CP-070312			Correction of Diameter AVP code allocation		
2007-09	CT#37	CP-070527			Application ID for Gx protocol	7.7.0	7.8.0
2007-12	CT#38	CP-070743			AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
			0105		Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol		
2007-12	CT#38	CD 070755	0101	1	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
2001-12	01#30	CP-070755	0101	4	AVP code reservation for 32.299 in Rel-8	7.9.0	0.0.0
2008-03	CT#39	CP-080015			Correction of reference to TS 29.140	8.0.0	8.1.0
2006-03	C1#39	CP-080019				0.0.0	6.1.0
		CP-080019			AVP code reservation for TS 32.299 in Rel-8 Wildcarded Public User Identities	1	
		CP-080019	0107	1	Correction on AVP code allocation reservation for TS 32.299 in	1	
		01 .000191	0112	'	Rel-7		
		CP-080204	0113	1	Correction on AVP code allocation reservation for TS 32.299	1	
2008-06	CT#40	CP-080267			A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-09	CT#41	CP-080456			Emergency Public User Identity Removal	8.2.0	8.3.0
2008-09	CT#41		0121		Support of "Loose-Route" indication from HSS	1 = . 5	
2000-03				1	1 11	4	1
2008-09	CT#41	CP-080460	0122	1	STaMIP Application Id		
		CP-080460 CP-080463	0122 0123	1	STaMIP Application Id  Cx Impacts of IMS Restoration Procedures (New AVP Codes		

2008-12	CT#41 CT#42	CP-080463 CP-080691	0124 0127	2	New AVP Code Assignment for Forking Service Restoration	8.2.0 8.3.0	8.3.0 8.4.0
2000 12	CT#42				Diameter Protocol Codes Assignments for S6a/S6d/S13		
2008-12			0128		Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03 2009-03	CT#43	CP-090044		1	Update for ReadyForSM	8.4.0	8.5.0
	CT#43 CT#43	CP-090044 CP-090026		1	Handling LCS Subscription Data	8.4.0	8.5.0
2009-03		CP-090026 CP-090024			Update for Restoration	8.4.0	8.5.0
2009-03	CT#43			2	Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033			Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43		0137	1	AVP codes for S9 protocol	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0138	1	Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0140	1	Location of Permanent Failure result code range for the S9 application	8.4.0	8.5.0
2009-03	CT#43	CP-090024			AVPs for TS 29.273	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299		4	Update of the AVP Codes	8.5.0	8.6.0
		CP-090299			AVP code reservation for TS 32.299		
		CP-090299	0145		Diameter Command Codes for S6a/S6d/S13/S13'		
			0146		Removal of Requesting Node Type from AIR		
			0147		S6b Application ID		
2009-09	CT#45	CP-090530	0149		Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
		CP-090530	0152		AVP code allocation for TS 29.212	1	
		CP-090531	0150		Update of the AVP type for the User-Id	Ī	
		CP-090531	0153		Trace Depth per session	Ī	
2009-09	CT#45	CP-090557	0148		AVP code range for charging	8.7.0	9.0.0
2009-12	CT#46	CP-090800	0154	1	ICS-Flag	9.0.0	9.1.0
2000 12	011110	CP-091032	0156	•	From GMLC-Address to GMLC-Number	0.0.0	0.1.0
		01 001002	0160		Session-Priority AVP	1	
			0163	2	Introduction of SLh application related AVPs and Experimental	1	
			0100	_	Result codes		
			0166		Missing AVP error codes		
		CP-090797	0167	1	Introduction of SLg application related AVPs and Application	1	
		01 030737	0107	'	Identifier		
2010-03	CT#47	CP-100031	0158	1	Wildcarded Public Identity	9.1.0	9.2.0
2010 00	01#41	CP-100034	0168		Correction on AVP code allocation reservation for TS 32.299 in	3.1.0	5.2.0
		01 100004	0100	'	Rel-9		
		CP-100046	0169	1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109		
		CP-100046			Error codes in 29.172 for SLg		
		CP-100048	0174	1	AVPs in 29.272 for TADS support	1	
		CP-100040	0175	•	Error codes in 29.272 for Unknown MME		
		CP-100236		4	EPS Subcsriber State and Location Information Request		
		CP-100033	0180		One time notification AVP allocation		
		CP-100046			Addition of the LCS-QoS-Class attribute value		
			0182		Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
	1	CP-100175		+	AVP Codes for PCC		9.3.0
2010-06	CT#48	CP-100175 CP-100263		1	AVE COURS TO FCC	9.2.0	
2010-06	CT#48	CP-100175 CP-100263	0188	1	EPS state and location retrieval	9.2.0	0.0.0
2010-06	CT#48	CP-100263	0188 0183	1	EPS state and location retrieval	9.2.0	0.0.0
2010-06	CT#48	CP-100263 CP-100287	0188 0183 0186		EPS state and location retrieval SGmb Application ID	9.2.0	0.0.0
		CP-100263 CP-100287 CP-100277	0188 0183 0186 0190	1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol	-	
2010-06	CT#48	CP-100263 CP-100287	0188 0183 0186	1	EPS state and location retrieval SGmb Application ID	9.2.0	9.4.0
		CP-100263 CP-100287 CP-100277 CP-100463	0188 0183 0186 0190 0197	1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces	-	
		CP-100263 CP-100287 CP-100277 CP-100463 CP-100464	0188 0183 0186 0190 0197	1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh	-	9.4.0
2010-09	CT#49	CP-100263 CP-100287 CP-100277 CP-100463	0188 0183 0186 0190 0197 0196 0193	1 1 1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator	9.3.0	9.4.0
2010-09	CT#49	CP-100263 CP-100287 CP-100277 CP-100463 CP-100464 CP-100465 CP-100466	0188 0183 0186 0190 0197 0196 0193 0198	1 1 1 2	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address	9.3.0	9.4.0
2010-09	CT#49	CP-100263  CP-100287  CP-100277  CP-100463  CP-100464  CP-100465  CP-100466  CP-100466	0188 0183 0186 0190 0197 0196 0193 0198 0199	1 1 1 2	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature	9.3.0	9.4.0
2010-09	CT#49	CP-100263 CP-100287 CP-100277 CP-100463 CP-100464 CP-100465 CP-100466	0188 0183 0186 0190 0197 0196 0193 0198 0199 0205	1 1 1 2	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data	9.3.0	9.4.0
2010-09	CT#49	CP-100263 CP-100287 CP-100277 CP-100463 CP-100466 CP-100466 CP-100466 CP-100699 CP-100687	0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201	1 1 2 1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS	9.3.0	9.4.0
2010-09	CT#49	CP-100263 CP-100287 CP-100277 CP-100463 CP-100464 CP-100466 CP-100466 CP-100699 CP-100687 CP-100683	0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201	1 1 2 1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA	9.3.0	9.4.0
2010-09	CT#49	CP-100287 CP-100287 CP-100277 CP-100463 CP-100466 CP-100466 CP-100466 CP-100699 CP-100687 CP-100683 CP-100688	0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206	1 1 2 1 1 1 1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription	9.3.0	9.4.0
2010-09 2010-09 2010-12	CT#49 CT#49 CT#50	CP-100263  CP-100287  CP-100277  CP-100463  CP-100465  CP-100466  CP-100466  CP-100699  CP-100687  CP-100688  CP-100688  CP-1006846	0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203	1 1 1 2 1 1 1 1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic	9.3.0	9.4.0
2010-09 2010-09 2010-12	CT#49	CP-100263  CP-100287  CP-100277  CP-100463  CP-100465  CP-100466  CP-100669  CP-100687  CP-100688  CP-100688  CP-100846  CP-100688  CP-10051	0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212	1 1 1 2 1 1 1 1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction	9.3.0	9.4.0
2010-09 2010-09 2010-12	CT#49 CT#49 CT#50	CP-100263  CP-100287  CP-100463  CP-100464  CP-100465  CP-100466  CP-100699  CP-100687  CP-100688  CP-100688  CP-100688  CP-100688  CP-10051  CP-110051  CP-110054	0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215	1 1 2 1 1 1 1 1 1 1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs	9.3.0	9.4.0
2010-09 2010-09 2010-12	CT#49 CT#49 CT#50	CP-100263  CP-100287  CP-100463  CP-100464  CP-100465  CP-100466  CP-100699  CP-100687  CP-100688  CP-100688  CP-100684  CP-110051  CP-110054  CP-110057	0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207	1 1 2 1 1 1 1 1 1 1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT)	9.3.0	9.4.0
2010-09 2010-09 2010-12 2011-03	CT#49 CT#49 CT#50 CT#51	CP-100263  CP-100287 CP-100277  CP-100463  CP-100465 CP-100465 CP-100466 CP-100687 CP-100688 CP-100688 CP-100846 CP-110051 CP-110054 CP-110087 CP-110088	0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207	1 1 1 2 1 1 1 1 1 1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs	9.3.0	9.4.0
2010-09 2010-09 2010-12 2011-03	CT#49 CT#49 CT#50	CP-100263  CP-100287 CP-100463  CP-100464  CP-100465 CP-100466 CP-100668 CP-100688 CP-100688 CP-100688 CP-100688 CP-110051 CP-110054 CP-110087 CP-110088 CP-110088 CP-110088	0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219	1 1 1 2 1 1 1 1 1 1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration	9.3.0	9.4.0
2010-09 2010-09 2010-12 2011-03	CT#49 CT#49 CT#50 CT#51	CP-100263  CP-100287  CP-100463  CP-100464  CP-100466  CP-100466  CP-100687  CP-100688  CP-100846  CP-100846  CP-110051  CP-110054  CP-110087  CP-110087  CP-110084  CP-110087  CP-110087  CP-110087  CP-110087  CP-110087  CP-110087  CP-110087  CP-110087  CP-110087  CP-110088  CP-110087  CP-110087  CP-110087  CP-110087  CP-110087  CP-110088	0188 0183 0186 0190 0197 0196 0193 0198 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219	1 1 2 1 1 1 1 1 1 1 2	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup	9.3.0	9.4.0
2010-09	CT#49 CT#49 CT#50 CT#51	CP-100263  CP-100287  CP-100463  CP-100464  CP-100466  CP-100466  CP-100687  CP-100688  CP-100846  CP-100846  CP-110051  CP-110087  CP-110088	0188 0183 0186 0190 0197 0196 0193 0198 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219	1 1 2 1 1 1 1 1 1 1 2	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces	9.3.0	9.4.0
2010-09 2010-09 2010-12 2011-03	CT#49 CT#49 CT#50 CT#51	CP-100263  CP-100287  CP-100463  CP-100464  CP-100466  CP-100466  CP-100699  CP-100687  CP-100688  CP-100846  CP-110051  CP-110054  CP-110088  CP-110359  CP-110389  CP-110389  CP-110389  CP-110389  CP-110389  CP-110389  CP-110389  CP-110389	0188 0183 0186 0190 0197 0196 0193 0198 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0221 0221	1 1 2 1 1 1 1 1 1 1 2	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent	9.3.0	9.4.0
2010-09 2010-09 2010-12 2011-03	CT#49 CT#49 CT#50 CT#51	CP-100263  CP-100287 CP-100277  CP-100463  CP-100466  CP-100466  CP-100466  CP-100687 CP-100683 CP-100688 CP-100846  CP-110051 CP-110054 CP-110054 CP-110057 CP-110370 CP-110370	0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0231 0226 0216 0223	1 1 2 1 1 1 1 1 1 1 2	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging	9.3.0	9.4.0
2010-09 2010-09 2010-12 2011-03	CT#49 CT#49 CT#50 CT#51	CP-100263  CP-100287 CP-100277  CP-100463  CP-100466  CP-100466  CP-100466  CP-100687 CP-100683 CP-100688 CP-100846  CP-110051 CP-110054 CP-110054 CP-110057 CP-110370 CP-110370 CP-110370 CP-110375	0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0231 0226 0216 0223 0227	1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging PUR-Flags AVP	9.3.0 9.4.0 10.0.0 10.1.0	9.4.0 10.0.0 10.1.0 10.2.0
2010-09 2010-09 2010-12 2011-03	CT#49 CT#49 CT#50 CT#51	CP-100263  CP-100287 CP-100277  CP-100463  CP-100466  CP-100466  CP-100466  CP-100687 CP-100683 CP-100688 CP-100846  CP-110051 CP-110054 CP-110057 CP-110370 CP-110370 CP-110375 CP-110375 CP-110375	0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0231 0226 0216 0223 0227 0236	1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging PUR-Flags AVP AVP code alignment with 29.212	9.3.0	9.4.0 10.0.0 10.1.0 10.2.0
2010-09 2010-09 2010-12 2011-03	CT#49 CT#49 CT#50 CT#51	CP-100263  CP-100287 CP-100277  CP-100463  CP-100466  CP-100466  CP-100466  CP-100687 CP-100683 CP-100688 CP-100846  CP-110051 CP-110054 CP-110054 CP-110057 CP-110370 CP-110370 CP-110370 CP-110375 CP-110359 CP-110359 CP-110555	0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0206 0203 0212 0215 0207 0209 0219 0231 0226 0216 0223 0227 0236 0239	1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging PUR-Flags AVP AVP code alignment with 29.212 AVP code alignment with 32.299	9.3.0 9.4.0 10.0.0 10.1.0	9.4.0 10.0.0 10.1.0 10.2.0
2010-09 2010-09 2010-12 2011-03	CT#49 CT#49 CT#50 CT#51	CP-100263  CP-100287 CP-100277  CP-100463  CP-100466  CP-100466  CP-100466  CP-100687 CP-100683 CP-100688 CP-100846  CP-110051 CP-110054 CP-110057 CP-110370 CP-110370 CP-110375 CP-110375 CP-110375	0188 0183 0186 0190 0197 0196 0193 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0231 0226 0213 0226 0213 0227 0236 0239 0244	1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1	EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging PUR-Flags AVP AVP code alignment with 29.212	9.3.0 9.4.0 10.0.0 10.1.0	9.4.0 10.0.0 10.1.0 10.2.0

		CP-110722	0257	2	Priviledged sender	1	
2011-09	CT#53	CP-110584			Add vSRVCC updates to the Diameter AVP code table	10.4.0	11.0.0
		CP-110579			AVP code alignment with 32.299		
		CP-110555			AVP code reservation for 29.212		
2011-12	CT#54	CP-110812		1	SWx Restoration AVPs	11.0.0	11.1.0
		CP-110812			Sy and Sd Application IDs	_	
		CP-110775			New AVP codes for MBMS IP unicast encapsulation	_	
		CP-110775 CP-110786		1	New AVP codes for MBMS IP multicast encapsulation  MME-Realm AVP code allocation	-	
		CP-110780	0277	1	Equivalent PLMN CSG Subscription Request		
		CP-110781		1	Restoration of Wildcarded-IMPU AVP		
2012-03	CT#55		0286	1	Codes Allocation for AVPs on Initial Attach	11.1.0	11.2.0
		CP-120038	0288		New AVP codes for Absolute Time of MBMS Data Transfer over		
		CP-120038	0291	1	SGmb Allocating Diameter AVP codes for TS 29.219 and TS 29.212		
2012-06	CT#56	CP-120240			Codes Allocation for AVPs on NPLI	11.2.0	11.3.0
		CP-120238	0294	1	Adding new Diameter AVPs to Diameter table to support Trusted		
					WLAN Access feature		
		CP-120225			Trust Relationship Indication		
		CP-120251			Corrections to reference titles		
		CP-120251		1	Diameter Code Allocation for TS 29.219		
		CP-120247		-	Network Name AVP codes		
0010.00	OT#57	CP-120219		-	Duplicated AVP names	44.0.0	44.40
2012-09	CT#57	CP-120481			PS additional number allocation	11.3.0	11.4.0
		CP-120473 CP-120461	0293		SMS in MME/SGSN AAA Failure Recovery AVP codes	-	
		CP-120461 CP-120474		_	Transport Access Type AVP for BBAI	-	
		CP-120474	0303	1	Local Time Zone		
		CP-120472	0308	-	Allocating Application Identifier and command code for Tsp		
		CP-120472	0309	-	Interface Application Identifier, Command Codes and AVP range for S6m		
		00.400007	0010		interface		
		CP-120667	0312 0313		GMLC-Name	_	
2012-12	CT#58	CP-120731	0315		Reference list correction to align with the corrected TS 29.212 title T4 device triggering via IMS	11 / 0	11.5.0
2012-12	01#30	CP-120731	0318		Codes and Identifier Allocation for T4 Specification	11.4.0	11.5.0
		CP-120731		-	AVP Code Allocation for 29.336		
		CP-120731		-	Diameter AVP code value allocation in TS 29.368		
		CP-120732		2	Application Identifier, Command Codes and AVP codes for SGd,		
		CP-120716	0324	1	S6c AVP name modification in TS 32.299		
		CP-120742		-	UE Time Zone AVP		
		CP-120741	0328	1	Use of Flag instead of Enumerated AVPs		
		CP-120741	332	-	Use of Flag instead of Enumerated AVPs		
		CP-120743	330	-	PSI direct routing with restoration procedures		
		CP-120743		-	EPS LocationInformation Support		
2013-03	CT#59	CP-130026		1	Diameter error code for TS 29.219	11.5.0	11.6.0
0010.00	OT#50	CP-130026		-	MDT parameters	44.0.0	4000
2013-03	CT#59	CP-130156		1	New AVPs for Lgd interface	11.6.0	12.0.0
2013-06	CT#60	CP-130030 CP-130288		1	Validity Time of Short Message Add new DER-S6b-flag AVP	12.0.0	12.1.0
2013-00	C1#00	CP-130288		-	Failure Result Codes Allocation for TS 29.219	12.0.0	12.1.0
		CP-130292		_	Diameter AVP codes for new TS 32.299 AVPs		
		CP-130279	0354	1	Definition of SS Status for Call Barring		
		CP-130380		-	New SGs-MME-Identity AVP		
		CP-130291	0348	2	New AVPs for deferred MT-LR and periodic MO-LR TTTP		
					procedures over Lgd interface		
		CP-130297		1	Application Port Identifier		
		CP-130374		1	MTRR on Sh		
		CP-130295		-	Restoration Priority during SGW and PGW restoration procedures	-	
0040.00	OT#04	CP-130378			SIPTO permission for Local Network enhancements	40.4.0	40.00
2013-09	CT#61	CP-130454		2	New MBMS flag for eMBMS restoration	12.1.0	12.2.0
		CP-130461 CP-130460	0366 0368	-	AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215	-	
2013-09		01 -130460	0300	-	Vendor-specific command code for Trigger-Establishment-	1220	12.2.1
_0.000					Request/Answer corrected	12.2.0	15.5.1
2013-12	CT#62	CP-130624	0369	-	New AVP for optimized LCS procedure for combined MME/SGSN	12.2.1	12.3.0
	ĺ	CP-130631		1	Adding E-SMLC provided Cell info and Cell Portion	Ī	
		CP-130800		-	New AVPs for SMS for IMS UE without MSISDN in TS 29.338	1	
		CP-130600		1	Allocation of Diameter codes for 32.299	1	
	1	CP-130605		<u>-</u>	Allocation of Diameter codes for 29.212	<u></u>	
						1	
		CP-130639			SGSN CAMEL Subscription Indication		
2014-03	CT#63	CP-140180	0381		Protocol enhancements for the support of device replace procedure	12.3.0	12.4.0
2014-03	CT#63		0381 0384	2		12.3.0	12.4.0

2014-06	CT#64	CP-140211	0385	1	Protocol enhancements to indicate support of device recall and replace by SMS-SC	12.4.0	12.5.0
		CP-140251	0402	1	AVP allocation for Error handling, MTC error diagnostic	1	
		CP-140257			SS-Status AVP Definition	1	
		CP-140252			Definition of AVPs for Network Location in TWLAN	]	
		CP-140236			TWAN-BSSID AVP re-naming	<u> </u>	
	CP-140247			New AVPs for Trusted WLAN access	4		
2014-09	CT#65	CP-140231 CP-140515			Adding Codes for 29.214 T-GRUU restoration	12.5.0	1261
2014-09	01#03	CP-140515			MB2-C codes	12.5.0	12.0.
		CP-140505			New AVPs for Trusted WLAN access	1	
		CP-140506			P-CSCF Restoration indication	1	
	İ	CP-140516			Closing TS 29.234 and reused AVP in TS 29.273	j	
		CP-140513	0408	-	Identification of the HSS	]	
					Editorial: WLAN-offloadability AVP codes added as in CR C4-141648.		
2014-12	CT#66	CP-140785	0409	1	New AVP for MBMS restoration	12.6.0	12.7.0
	Ì		0430		New Diagnostic-Info AVP for MBMS restoration	1	
			0410		WLCP key for WLCP signalling protection	]	
			0411		Reset-ID	1	
			0416		Code definitions for 32.299	4	
			0428		Removal of I-WLAN AVPs	4	
			0429 0433		Reference correction  Code allocation for 29.212	1	
			0433		MDT PLMN List	1	
			0418		Codes Allocation for PC2 Protocol	†	
			0423		Codes Allocation for PC4a Protoco	1	
			0431		Allocation of values for Application ID, Command codes, AVP	Ī	
					codes and Experimental-Result codes used in the TS 29.345	<u> </u>	
			0434	1	Command Code and Error Code for ProSe Initial Location		
			0.405		Information Retrieval	4	
	ŀ		0425 0426		Corrections of the type of some AVPs	┨	
			0426		OFR-Flags AVP code P-CSCF Restoration mechanism new error	┨	
2015-03	CT#67	CP-150015	0447		Renaming of Location-Type AVP	12.7.0	12.8
2010 00	01,1101	01 100010	0437		Location reporting in emergency 1xSRVCC	1.2.7.0	12.0.
			0435		AVP codes for GCSE MB2-C	1	
			0442		New AVPs and range of transient failure result codes in TS 29.214	j	
			0438	1	Allocation of code for Authorized-Discovery-Range AVP (TS		
	ļ		0.4.40	_	29.344)	1	
			0440	_	Location Update Trigger	4	
	ŀ		0441 0443		AVP codes allocation for Validity related AVPs for TS 29.345 Allocation of codes for the Integrity Checks. Aspect AVPs	4	
2015-03	CT#67	CP-150039			Diameter Application Identifier for Np protocol	12.8.0	13.0
2015-06	CT#68	CP-150257			AVP code allocation for Match Refresh Timer AVP in TS 29.345	13.0.0	
		CP-150247			Wrong CR implementation of CR 0416r1	1	
		CP-150249	0459	1	AVP code allocation for 32.299	]	
		CP-150263			AVP codes for Access Restriction Data per PLMN	1	
	07::00	CP-150372			IP-SM-GW-Realm	10.10	10.0
2015-09	CT#69	CP-150454			Subscription data for extended buffering at the SGW	13.1.0	13.2.0
		CP-150442 CP-150453			Overlapping transaction over S6b Addition of IMSI Group Id AVP definition	4	
		CP-150453 CP-150449			Addition of CP parameter AVP definition	┨	
		CP-150431			AVP codes for TS 29.212	1	
	ŀ				AVP definiton for S6t	1	
		TCP-150456	U41				13.3.
2015-12	CT#70	CP-150456 CP-150761			Addition of MBMS-Cell-List AVP	13.2.0	
2015-12	CT#70	CP-150761 CP-150778	0473 0474	-	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778	0473 0474 0474	- - 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778	0473 0474 0474 0490	- - 1 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778	0473 0474 0474 0490	- - 1 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778	0473 0474 0474 0490 0491	- - 1 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778	0473 0474 0474 0490 0491	- - 1 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778	0473 0474 0474 0490 0491	- - 1 1 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE)	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778	0473 0474 0474 0490 0491 0494	- - 1 1 1 2	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150770	0473 0474 0474 0490 0491 0494 0501 0502 0475	- - 1 1 1 2 1 2	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778	0473 0474 0474 0490 0491 0494 0501 0502 0475	- - 1 1 1 2 1 2	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776	0473 0474 0474 0490 0491 0494 0501 0502 0475 0476	- - 1 1 1 2 1 2 1 -	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776	0473 0474 0474 0490 0491 0494 0501 0502 0475 0476	- - 1 1 1 2 1 2 1 -	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776	0473 0474 0474 0490 0491 0494 0501 0502 0475 0476	- - 1 1 1 2 1 2 1 -	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776 CP-150776 CP-150776 CP-150776	0473 0474 0474 0490 0491 0494 0501 0502 0475 0476 0497	- - 1 1 1 2 1 2 1 - 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX - Additional Option	13.2.0	
2015-12	CT#70	CP-150761 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776	0473 0474 0474 0490 0491 0501 0502 0475 0476 0497 0498	- - 1 1 1 2 1 2 1 - 1 1	Addition of MBMS-Cell-List AVP S6t Application ID and Command Codes Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX	13.2.0	

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	ļ	CP-150772			Addition of AVP used in match report procedure for eProSe-Ext-CT		
	}	CP-150754		1	Allowed WAF and/or WWSF Identities	}	
	ļ	CP-150773		-	Add the default access type to 3GPP specific AVP	}	
	}	CP-150781 CP-150755		1	AVP code allocation for "UE Usage Type"  Metadata in Match-Report	}	
	}	CP-150755		-	New Group AVP for ProSe direct discovery procedures	}	
		CP-150755			Definition of AVP for AESE-CT	}	
		CP-150771			Command codes and AVP range for TS 29.154 and TS 29.153	}	
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2010 00	01,111	CP-160041	0506	1	Correction on TS numbers	10.0.0	10.4.0
	Ì	CP-160041	0510		AVPs for the Rx Diameter application	Ì	
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					absolute time	Į	
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	ļ				UE using eDRX	ļ	
		CP-160037			ePDG retrieval of WLAN Location Information	<b>{</b>	
		CP-160033			Definition of AVP Authorization of NIDD	}	
	}	CP-160033			New PDN-Type for Cellular IoT	}	
	}	CP-160036 CP-160036			Monitoring update and Reporting of update result Allocation of new Diameter Application ID and commands code for	}	
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2017-03	CT#75	CP-170043	0603	1	Correct Diameter Result Code Allocated for V2X	14.3.0	14.4.0
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## History

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