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| 3GPP TS 29.230 V16.7.0 (2021-09) | |
| Technical Specification | |
| 3rd Generation Partnership Project;  Technical Specification Group Core Network and Terminals;  Diameter applications;  3GPP specific codes and identifiers  (Release 16) | |
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# Foreword

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

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

Version x.y.z

where:

x the first digit:

1 presented to TSG for information;

2 presented to TSG for approval;

3 or greater indicates TSG approved document under change control.

y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

z the third digit is incremented when editorial only changes have been incorporated in the document.

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

**shall** indicates a mandatory requirement to do something

**shall not** indicates an interdiction (prohibition) to do something

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

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

**should** indicates a recommendation to do something

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

**may** indicates permission to do something

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

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

**can** indicates that something is possible

**cannot** indicates that something is impossible

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

**will** indicates that something is certain or expected to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**will not** indicates that something is certain or expected not to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**might** indicates a likelihood that something will happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

**might not** indicates a likelihood that something will not happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

In addition:

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

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

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

# 1 Scope

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

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

# 2 References

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

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

- For a specific reference, subsequent revisions do not apply.

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

[1] 3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and message contents".

[2] 3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter protocol; Protocol details".

[3] 3GPP TS 29.328: "IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents".

[4] 3GPP TS 29.329: "Sh Interface based on the Diameter protocol; Protocol details".

[5] 3GPP TS 32.299: "Telecommunication management; Charging management; Diameter charging applications".

[6] 3GPP TS 29.234, Release 11: "3GPP system to Wireless Local Area Network (WLAN) interworking; Stage 3".

[7] 3GPP TS 29.109: "Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Stage 3".

[8] 3GPP TS 29.209, Release 6: "Policy control over Gq interface".

[9] IETF RFC 3588: "Diameter Base Protocol".

[10] IETF RFC 3589: "Diameter Command Codes for Third Generation Partnership Project (3GPP) Release 5".

[11] IANA's Enterprise-Numbers: <http://www.iana.org/assignments/enterprise-numbers>

[12] IANA's AAA parameters register: <ftp://ftp.iana.org/assignments/aaa-parameters/>

[13] 3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".

[14] 3GPP TS 32.296: "Telecommunication management; Charging management; Online Charging System (OCS): Applications and interfaces".

[15] 3GPP TS 29.210, Release 6: "Charging rule provisioning over Gx interface".

[16] 3GPP TS 29.140, Release 6: "Multimedia Messaging Service (MMS); MM10 interface based on Diameter protocol; Stage 3".

[17] 3GPP TS 29.211, Release 6: "Rx Interface and Rx/Gx signalling flows".

[18] 3GPP TS 29.214: "Policy and Charging Control over Rx reference point".

[19] 3GPP TS 29.212: "Policy and Charging Control (PCC);Reference points".

[20] 3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces".

[21] 3GPP TS 29.272: "Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol".

[22] 3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point; Stage 3".

[23] IETF RFC 5516: "Diameter Command Code Registration for Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)".

[24] 3GPP TS 29.172: "Location Services (LCS); Evolved Packet Core (EPC) LCS Protocol (ELP) between the Gateway Mobile Location Centre (GMLC) and the Mobile Management Entity (MME); SLg interface".

[25] 3GPP TS 29.173: "Location Services (LCS); Diameter-based SLh interface for Control Plane LCS".

[26] 3GPP TS 29.219: "Policy and Charging Control: Spending Limit Reporting over Sy reference point".

[27] 3GPP TS 29.368: "Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS)".

[28] 3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications".

[29] 3GPP TS 29.337: "Diameter-based T4 interface for communications with packet data networks and applications".

[30] 3GPP TS 29.338: "Diameter based protocols to support SMS capable MMEs".

[31] 3GPP TS 29.468: "Group Communication System Enablers for LTE (GCSE\_LTE)".

[32] 3GPP TS 29.343: "Proximity-services (ProSe) function to ProSe application server aspects (PC2)".

[33] 3GPP TS 29.344: "Proximity-services (ProSe) Function to Home Subscriber Server (HSS) aspects".

[34] 3GPP TS 29.345: "Inter-Proximity-services (Prose) function signalling aspects; Stage 3".

[35] 3GPP TS 29.217: "Policy and Charging Control over Np reference point".

[36] 3GPP TS 29.128: "Diameter based T6a/T6b interface between the MME/SGSN and the SCEF".

[37] 3GPP TS 29.153: "Service exposure functionality between SCEF and RCAF reference point".

[38] 3GPP TS 29.154: "Service capability exposure functionality over Nt Reference point".

[39] 3GPP TS 29.283: "Diameter Data Management applications".

[40] 3GPP TS 29.388: "V2X Control Function to V2X Control Function to Home Subscriber Server (HSS) aspects (V4)".

[41] 3GPP TS 29.389: "Inter-V2X Control Function Signalling aspects (V6)".

[42] 3GPP TS 29.561: "Interworking between 5G Network and external Data Networks; Stage 3".

# 3 Definitions and abbreviations

## 3.1 Definitions

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

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

## 3.2 Abbreviations

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

AVP Attribute-Value-Pair

CR Change Request

IANA Internet Assigned Numbers Authority

IETF Internet Engineering Task Force

LS Liaison Statement

# 4 Application identifiers

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

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

## 4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

|  |  |  |
| --- | --- | --- |
| Application identifier | Application | 3GPP TS |
| 16777216 | 3GPP Cx/Px | 29.228 [1] and 29.229 [2] |
| 16777217 | 3GPP Sh/Ph | 29.328 [3] and 29.329 [4] |
| 16777218 | 3GPP Re | 32.296 [14] |
| 16777219 | 3GPP Wx | 29.234 [6] |
| 16777220 | 3GPP Zn | 29.109 [7] |
| 16777221 | 3GPP Zh | 29.109 [7] |
| 16777222 | 3GPP Gq | 29.209 [8] |
| 16777223 | 3GPP Gmb | 29.061 [13] |
| 16777224 | 3GPP Gx | 29.210 [15] |
| 16777225 | 3GPP Gx over Gy | 29.210 [15] |
| 16777226 | 3GPP MM10 | 29.140 [16] |
| 16777229 | 3GPP Rx | 29.211 [17] |
| 16777230 | 3GPP Pr | 29.234 [6] |
| 16777236 | 3GPP Rx | 29.214 [18] |
| 16777238 | 3GPP Gx | 29.212 [19] |
| 16777250 | 3GPP STa | 29.273 [20] |
| 16777251 | 3GPP S6a | 29.272 [21] |
| 16777252 | 3GPP S13/S13' | 29.272 [21] |
| 16777255 | 3GPP SLg | 29.172 [24] |
| 16777264 | 3GPP SWm | 29.273 [20] |
| 16777265 | 3GPP SWx | 29.273 [20] |
| 16777266 | 3GPP Gxx | 29.212 [19] |
| 16777267 | 3GPP S9 | 29.215 [22] |
| 16777268 | 3GPP Zpn | 29.109 [7] |
| 16777272 | 3GPP S6b | 29.273 [20] |
| 16777291 | 3GPP SLh | 29.173 [25] |
| 16777292 | 3GPP SGmb | 29.061 [13] |
| 16777302 | 3GPP Sy | 29.219 [26] |
| 16777303 | 3GPP Sd | 29.212 [19] |
| 16777308 | 3GPP S7a | 29.272 [21] |
| 16777309 | 3GPP Tsp | 29.368 [27] |
| 16777310 | 3GPP S6m | 29.336 [28] |
| 16777311 | 3GPP T4 | 29.337 [29] |
| 16777312 | 3GPP S6c | 29.338 [30] |
| 16777313 | 3GPP SGd | 29.338 [30] |
| 16777318 | 3GPP S15 | 29.212 [19] |
| 16777319 | 3GPP S9a | 29.215 [22] |
| 16777320 | 3GPP S9a\* | 29.215 [22] |
| 16777335 | 3GPP MB2-C | 29.468 [31] |
| 16777336 | 3GPP PC4a | 29.344 [33] |
| 16777337 | 3GPP PC2 | 29.343 [32] |
| 16777340 | 3GPP PC6/PC7 | 29.345 [34] |
| 16777342 | 3GPP Np | 29.217 [35] |
| 16777345 | 3GPP S6t | 29.336 [28] |
| 16777346 | 3GPP T6a/T6b | 29.128 [36] |
| 16777347 | 3GPP Ns | 29.153[37] |
| 16777348 | 3GPP Nt | 29.154[38] |
| 16777349 | 3GPP St | 29.212 [19] |
| 16777350 | 3GPP PC2 | 29.343 [32] |
| 16777351 | 3GPP Diameter Data Management | 29.283 [39] |
| 16777355 | 3GPP V4 | 29.388 [40] |
| 16777356 | 3GPP V6 | 29.389 [41] |
| 16777358 | 3GPP Nta | 29.154 [38] |

# 5 Command codes

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

## 5.1 Command codes allocated for 3GPP

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

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

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

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| Command code value | Command name | Abbreviation | Specified in 3GPP TS |
| 316 | Update-Location-Request/Answer | ULR/ULA | 29.272 [21] |
| 317 | Cancel-Location-Request/Answer | CLR/CLA |
| 318 | Authentication- Information -Request/Answer | AIR/AIA |
| 319 | Insert Subscriber Data-Request/Answer | IDR/IDA |
| 320 | Delete-Subscriber-Data-Request/Answer | DSR/DSA |
| 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 | 29.172 [24] |
| 8388621 | Location-Report-Request/Answer | LRR/LRA |
| 8388622 | LCS-Routing-Info-Request/Answer | RIR/RIA | 29.173 [25] |
| 8388635 | Spending-Limit-Request/Answer | SLR/SLA | 29.219 [26] |
| 8388636 | Spending-Status-Notification-Request/Answer | SNR/SNA |
| 8388637 | TDF-Session-Request/Answer | TSR/TSA | 29.212 [19] |
| 8388731 | TSSF-Notification-Request/Answer | TNR/TNA |
| 8388638 | Update-VCSG-Location-Request/Answer | UVR/UVA | 29.272 [21] |
| 8388642 | Cancel-VCSG-Location-Request/Answer | CVR/CVA |
| 8388639 | Device-Action-Request/Answer | DAR/DAA | 29.368 [27] |
| 8388640 | Device-Notification-Request/Answer | DNR/DNA |
| 8388641 | Subscriber-Information-Request/Answer | SIR/SIA | 29.336 [28] |
| 8388718 | Configuration-Information-Request/Answer | CIR/CIA | 29.336 [28] |
| 8388719 | Reporting-Information-Request/Answer | RIR/RIA |
| 8388726 | NIDD-Information-Request/Answer | NIR/NIA |
| 8388643 | Device-Trigger-Request/Answer | DTR/DTA | 29.337 [29] |
| 8388644 | Delivery-Report-Request/Answer | DRR/DRA |
| 8388645 | MO-Forward-Short-Message Request/Answer | OFR/OFA | 29.338 [30] |
| 8388646 | MT-Forward-Short-Message Request/Answer | TFR/TFA |
| 8388647 | Send-Routing-Info-for-SM-Request/Answer | SRR/SRA |
| 8388648 | Alert-Service-Centre-Request/Answer | ALR/ALA |
| 8388649 | Report-SM-Delivery-Status-Request/Answer | RDR/RDA |
| 8388656 | Trigger-Establishment-Request/Answer | TER/TEA | 29.215 [30] |
| 8388662 | GCS-Action-Request/Answer | GAR/GAA | 29.468 [31] |
| 8388663 | GCS-Notification-Request/Answer | GNR/GNA |
| 8388664 | ProSe-Subscriber-Information-Request/Answer | PIR/PIA | 29.344 [33] |
| 8388665 | Update-ProSe-Subscriber-Data-Request/Answer | UPR/UPA |
| 8388666 | ProSe-Notify-Request/Answer | PNR/PNA |
| 8388713 | ProSe-Initial-Location-Information-Request/Answer | PSR/PSA |
| 8388668 | ProSe-Authorization-Request/Answer | PAR/PAA | 29.345 [34] |
| 8388669 | ProSe-Discovery-Request/Answer | PDR/PDA |
| 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 | 29.343 [32] |
| 8388727 | ProXimity-Application-Request/Answer | XAR/XAA |
| 8388720 | Non-Aggregated-RUCI-Report-Request/Answer | NRR/NRA | 29.217 [35] |
| 8388721 | Aggregated-RUCI-Report-Request/Answer | ARR/ARA |
| 8388722 | Modify-Uecontext-Request/Answer | MUR/MUA |
| 8388724 | Network-Status-Request/Answer | NSR/NSA | 29.153 [37] |
| 8388725 | Network-Status-Continuous-Report-Request/Answer | NCR/NCA |
| 8388723 | Background-Data-Transfer-Request/Answer | BTR/BTA | 29.154 [38] |
| 8388728 | Data-Pull-Request/Answer | DPR/DPA | 29.283 [39] |
| 8388729 | Data-Update-Request/Answer | DUR/DUA |
| 8388730 | Notification-Data-Request/Answer | NDR/NDA |
| 8388732 | Connection-Management-Request/Answer | CMR/CMA | 29.128 [36] |
| 8388733 | MO-Data-Request/Answer | ODR/ODA |
| 8388734 | MT-Data-Request/Answer | TDR/TDA |
| 8388735 | Event-Configuration-Request/Answer | ECR/ECA | 29.154 [38] |
| 8388736 | Event-Reporting-Request/Answer | ERR/ERA |

# 6 Vendor identifier

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

## 6.1 3GPP's vendor identifier

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

# 7 Attribute-Value-Pair codes

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

## 7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| AVP Code | | Attribute Name | Data Type | | Specified in the 3GPP TS |
| 100 | | 3GPP-WLAN-APN-Id | OctetString | | 29.234 [6] |
| 101 | | 3GPP-WLAN-QoS-Filter-Rule | UTF8String | |
| 102 | | 3GPP-WLAN-QoS-Filter-Support | OctetString | |
| Note: The AVP codes from 1 to 255 are reserved for backwards compatibility with 3GPP RADIUS Vendor Specific Attributes (See 3GPP TS 29.061 [13], 3GPP TS 29.561 [42] and 3GPP TS 29.234 [6]) | | | | | |
| Note: The AVP codes from 256 to 299 are reserved for future use. | | | | | |
| 300 | | Authentication-Method | Enumerated | | 29.234 [6] |
| 301 | | Authentication-Information-SIM | OctetString | |
| 302 | | Authorization -Information-SIM | OctetString | |
| 303 | | WLAN-User-Data | Grouped | |
| 304 | | Charging-Data | Grouped | |
| 305 | | WLAN-Access | Enumerated | |
| 306 | | WLAN- 3GPP-IP-Access | Enumerated | |
| 307 | | APN-Authorized | Grouped | |
| 308 | | APN-Id |  | |
| 309 | | APN-Barring-Type | Enumerated | |
| 310 | | WLAN-Direct-IP-Access | Enumerated | |
| 311 | | Session-Request-Type | Enumerated | |
| 312 | | Routing-Policy | IPFilterRule | |
| 313 | | Max-Requested-Bandwidth | OctetString | |
| 314 | | Charging-Characteristics | Integer | |
| 315 | | Charging-Nodes | Grouped | |
| 316 | | Primary-OCS-Charging-Function-Name | DiameterIdentity | |
| 317 | | Secondary-OCS-Charging-Function-Name | DiameterIdentity | |
| 318 | | 3GPP-AAA-Server-Name | DiameterIdentity | |
| 319 | | Maximum-Number-Accesses | Unsigned32 | |
| Note 1: The AVP codes from 320 to 399 are reserved for TS 29.234  Note 2: The 3GPP-AAA-Server-Name definition is moved to TS 29.273 starting from Rel-12. | | | | | |
| 400 | | GBA-UserSecSettings | OctetString | | 29.109 [7] |
| 401 | | Transaction-Identifier | OctetString | |
| 402 | | NAF-Hostname | OctetString | |
| 403 | | GAA-Service-Identifier | OctetString | |
| 404 | | Key-ExpiryTime | Time | |
| 405 | | ME-Key-Material | OctetString | |
| 406 | | UICC-Key-Material | OctetString | |
| 407 | | GBA\_U-Awareness-Indicator | Enumerated | |
| 408 | | BootstrapInfoCreationTime | Time | |
| 409 | | GUSS-Timestamp | Time | |
| 410 | | GBA-Type | Enumerated | |
| 411 | | UE-Id | OctetString | |
| 412 | | UE-Id-Type | Enumerated | |
| 413 | | UICC-App-Label | OctetString | |
| 414 | | UICC-ME | Enumerated | |
| 415 | | Requested-Key-Lifetime | Time | |
| 416 | | Private-Identity-Request | Enumerated | |
| 417 | | GBA-Push-Info | OctetString | |
| 418 | | NAF-SA-Identifier | OctetString | |
| 419 | | Security-Feature-Request | OctetString | |
| 420 | | Security-Feature-Response | OctetString | |
| Note: The AVP codes from 421 to 499 are reserved for TS 29.109 | | | | | |
| 500 | | Abort-Cause | Enumerated | | 29.209 [8], 29.211 [17] ,  29.214 [18] |
| 501 | | Access-Network-Charging-Address | Address | |
| 502 | | Access-Network-Charging-Identifier | Grouped | |
| 503 | | Access-Network-Charging-Identifier-Value | OctetString | |
| 504 | | AF-Application-Identifier | OctetString | |
| 505 | | AF-Charging-Identifier | OctetString | |
| 506 | | Authorization-Token | OctetString | |
| 507 | | Flow-Description | IPFilterRule | |
| 508 | | Flow-Grouping | Grouped | |
| 509 | | Flow-Number | Unsigned32 | |
| 510 | | Flows | Grouped | |
| 511 | | Flow-Status | Enumerated | |
| 512 | | Flow-Usage | Enumerated | |
| 513 | | Specific-Action | Enumerated | |
| 514 | | Max-Requested-Bandwidth | Unsigned32 | |
| 515 | | Max-Requested-Bandwidth-DL | Unsigned32 | |
| 516 | | Max-Requested-Bandwidth-UL | Unsigned32 | |
| 517 | | Media-Component-Description | Grouped | |
| 518 | | Media-Component-Number | Unsigned32 | |
| 519 | | Media-Sub-Component AVP | Grouped | |
| 520 | | Media-Type | Enumerated | |
| 521 | | RR-Bandwidth | Unsigned32 | |
| 522 | | RS-Bandwidth | Unsigned32 | |
| 523 | | SIP-Forking-Indication | Enumerated | |
| 524 | | Codec-Data | OctetString | |
| 525 | | Service-URN | OctetString | |
| 526 | | Acceptable-Service-Info | Grouped | |
| 527 | | Service-Info-Status | Enumerated | |
| 528 | | MPS-Identifier | OctetString | |
| 529 | | AF-Signalling-Protocol | Enumerated | |
| 530 | | Sponsored-Connectivity-Data | Grouped | |
| 531 | | Sponsor-Identity | OctetString | |
| 532 | | Application-Service-Provider-Identity | OctetString | |
| 533 | | Rx-Request-Type | Enumerated | |
| 534 | | Min-Requested-Bandwidth-DL | Unsigned32 | |
| 535 | | Min-Requested-Bandwidth-UL | Unsigned32 | |
| 536 | | Required-Access-Info | Enumerated | |
| 537 | | IP-Domain-Id | OctetString | |
| 538 | | GCS-Identifier | OctetString | |
| 539 | | Sharing-Key-DL | Unsigned32 | |
| 540 | | Sharing-Key-UL | Unsigned32 | |
| 541 | | Retry-Interval | Unsigned32 | |
| 542 | | Sponsoring-Action | Enumerated | |
| 543 | | Max-Supported-Bandwidth-DL | Unsigned32 | |
| 544 | | Max-Supported-Bandwidth-UL | Unsigned32 | |
| 545 | | Min-Desired-Bandwidth-DL | Unsigned32 | |
| 546 | | Min-Desired-Bandwidth-UL | Unsigned32 | |
| 547 | | MCPTT-Identifier | OctetString | |
| 548 | | Service-Authorization-Info | Unsigned32 | |
| 549 | | Media-Component-Status | Unsigned32 | |
| 550 | | Priority-Sharing-Indicator | Enumerated | |
| 551 | | AF-Requested-Data | Unsigned32 | |
| 552 | | Content-Version | Unsigned64 | |
| 553 | | Pre-emption-Control-Info | Unsigned32 | |
| 554 | | Extended-Max-Requested-BW-DL | Unsigned32 | |
| 555 | | Extended-Max-Requested-BW-UL | Unsigned32 | |
| 556 | | Extended-Max-Supported-BW-DL | Unsigned32 | |
| 557 | | Extended-Max-Supported-BW-UL | Unsigned32 | |
| 558 | | Extended-Min-Desired-BW-DL | Unsigned32 | |
| 559 | | Extended-Min-Desired-BW-UL | Unsigned32 | |
| 560 | | Extended-Min-Requested-BW-DL | Unsigned32 | |
| 561 | | Extended-Min-Requested-BW-UL | Unsigned32 | |
| 562 | | MCVideo-Identifier | OctetString | |
| 563 | | IMS-Content-Identifier | OctetString | |
| 564 | | IMS-Content-Type | Enumerated | |
| 565 | | Callee-Information | Grouped | |
| 566 | | FLUS-Identifier | OctetString | |
| 567 | | Desired-Max-Latency | Float32 | |
| 568 | | Desired-Max-Loss | Float32 | |
| 569 | | NID | OctetString | |
| 570 | | MA-Information | Grouped | |
| 571 | | MA-Information-Action | Unsigned32 | |
| 572 | | 5GS-RAN-NAS-Release-Cause | Grouped | |
| 573 | | 5GMM-Cause | Unsigned32 | |
| 574 | | 5GSM-Cause | Unsigned32 | |
| 575 | | NGAP-Cause | Grouped | |
| 576 | | NGAP-Group | Unsigned32 | |
| 577 | | NGAP-Value | Unsigned32 | |
| 578 | | Wireline-User-Location-Info | Grouped | |
| 579 | | HFC-Node-Identifier | OctetString | |
| 580 | | GLI-Identifier | OctetString | |
| 581 | | Line-Type | Unsigned32 | |
| Note: The AVP codes from 582 to 599 are reserved for TS 29.209, TS 29.211 and TS 29.214 | | | | | |
| 600 | | Visited-Network-Identifier | OctetString | | 29.229 [2] |
| 601 | | Public-Identity | UTF8String | |
| 602 | | Server-Name | UTF8String | |
| 603 | | Server-Capabilities | Grouped | |
| 604 | | Mandatory-Capability | Unsigned32 | |
| 605 | | Optional-Capability | Unsigned32 | |
| 606 | | User-Data | OctetString | |
| 607 | | SIP-Number-Auth-Items | Unsigned32 | |
| 608 | | SIP-Authentication-Scheme | UTF8String | |
| 609 | | SIP-Authenticate | OctetString | |
| 610 | | SIP-Authorization | OctetString | |
| 611 | | SIP-Authentication-Context | OctetString | |
| 612 | | SIP-Auth-Data-Item | Grouped | |
| 613 | | SIP-Item-Number | Unsigned32 | |
| 614 | | Server-Assignment-Type | Enumerated | |
| 615 | | Deregistration-Reason | Grouped | |
| 616 | | Reason-Code | Enumerated | |
| 617 | | Reason-Info | UTF8String | |
| 618 | | Charging-Information | Grouped | |
| 619 | | Primary-Event-Charging-Function-Name | DiameterURI | |
| 620 | | Secondary-Event-Charging-Function-Name | DiameterURI | |
| 621 | | Primary-Charging-Collection-Function-Name | DiameterURI | |
| 622 | | Secondary-Charging-Collection-Function-Name | DiameterURI | |
| 623 | | User-Authorization-Type | Enumerated | |
| 624 | | User-Data-Already-Available | Enumerated | |
| 625 | | Confidentiality-Key | OctetString | |
| 626 | | Integrity-Key | OctetString | |
| 627 | | User-Data-Request-Type | Enumerated | |
| 628 | | Supported-Features | Grouped | |
| 629 | | Feature-List-ID | Unsigned32 | |
| 630 | | Feature-List | Unsigned32 | |
| 631 | | Supported-Applications | Grouped | |
| 632 | | Associated-Identities | Grouped | |
| 633 | | Originating-Request | Enumerated | |
| 634 | | Wildcarded-Public-Identity | UTF8String | |
| 635 | | SIP-Digest-Authenticate | Grouped | |
| 636 | | Wildcarded-IMPU | UTF8String | |
| 637 | | UAR-Flags | Unsigned32 | |
| 638 | | Loose-Route-Indication | Enumerated | |
| 639 | | SCSCF-Restoration-Info | Grouped | |
| 640 | | Path | OctetString | |
| 641 | | Contact | OctetString | |
| 642 | | Subscription-Info | Grouped | |
| 643 | | Call-ID-SIP-Header | OctetString | |
| 644 | | From-SIP-Header | OctetString | |
| 645 | | To-SIP-Header | OctetString | |
| 646 | | Record-Route | OctetString | |
| 647 | | Associated-Registered-Identities | Grouped | |
| 648 | | Multiple-Registration-Indication | Enumerated | |
| 649 | | Restoration-Info | Grouped | |
| 650 | | Session-Priority | Enumerated | |
| 651 | | Identity-with-Emergency-Registration | Grouped | |
| 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 | |
| 658 | | WebRTC-Web-Server-Function-Name | UTF8String | |
| 659 | | RTR-Flags | Unsigned32 | |
| 660 | | P-CSCF-Subscription-Info | Grouped | |
| 661 | | Registration-Time-Out | Time | |
| Note: The AVP codes from 662 to 699 are reserved for TS 29.229. | | | | | |
| 700 | | User-Identity | Grouped | | 29.329 [4] |
| 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 | |
| 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 | | 32.299 [5] |
| 824 | | SIP-Method | UTF8String | |
| 825 | | Event | UTF8String | |
| 826 | | Content-Type | UTF8String | |
| 827 | | Content-Length | Unsigned32 | |
| 828 | | Content-Disposition | UTF8String | |
| 829 | | Role-of-Node | Enumerated | |
| 830 | | User-Session-Id | UTF8String | |
| 831 | | Calling-Party-Address | UTF8String | |
| 832 | | Called-Party-Address | UTF8String | |
| 833 | | Time-Stamps | Grouped | |
| 834 | | SIP-Request-Timestamp | Time | |
| 835 | | SIP-Response-Timestamp | Time | |
| 836 | | Application-Server | UTF8String | |
| 837 | | Application-provided-called-party-address | UTF8String | |
| 838 | | Inter-Operator-Identifier | Grouped | |
| 839 | | Originating-IOI | UTF8String | |
| 840 | | Terminating-IOI | UTF8String | |
| 841 | | IMS-Charging-Identifier | UTF8String | |
| 842 | | SDP-Session-Description | UTF8String | |
| 843 | | SDP-Media-Component | Grouped | |
| 844 | | SDP-Media-Name | UTF8String | |
| 845 | | SDP-Media-Description | UTF8String | |
| 846 | | CG-Address | Address | |
| 847 | | GGSN-Address | Address | |
| 848 | | Served-Party-IP-Address | Address | |
| 849 | | Authorized-QoS | UTF8String | |
| 850 | | Application-Server-Information | Grouped | |
| 851 | | Trunk-Group-Id | Grouped | |
| 852 | | Incoming-Trunk-Group-Id | UTF8String | |
| 853 | | Outgoing-Trunk-Group-Id | UTF8String | |
| 854 | | Bearer-Service | OctetString | |
| 855 | | Service-Id | UTF8String | |
| 856 | | Associated-URI | UTF8String | |
| 857 | | Charged-Party | UTF8String | |
| 858 | | PoC-Controlling-Address | UTF8String | |
| 859 | | PoC-Group-Name | UTF8String | |
| 860 | | Cause | Grouped | |
| 861 | | Cause-Code | Integer32 | |
| 862 | | Node-Functionality | Enumerated | |
| 863 | | Service-Specific-Data | UTF8String | |
| 864 | | Originator | Enumerated | |
| 865 | | PS-Furnish-Charging-Information | Grouped | |
| 866 | | PS-Free-Format-Data | OctetString | |
| 867 | | PS-Append-Free-Format-Data | Enumerated | |
| 868 | | Time-Quota-Threshold | Unsigned32 | |
| 869 | | Volume-Quota-Threshold | Unsigned32 | |
| 870 | | Trigger-Type | Enumerated | |
| 871 | | Quota-Holding-Time | Unsigned32 | |
| 872 | | Reporting-Reason | Enumerated | |
| 873 | | Service-Information | Grouped | |
| 874 | | PS-Information | Grouped | |
| 875 | | Reserved | - | |
| 876 | | IMS-Information | Grouped | |
| 877 | | MMS-Information | Grouped | |
| 878 | | LCS-Information | Grouped | |
| 879 | | PoC-Information | Grouped | |
| 880 | | MBMS-Information | Grouped | |
| 881 | | Quota-Consumption-Time | Unsigned32 | |
| 882 | | Media-Initiator-Flag | Enumerated | |
| 883 | | PoC-Server-Role | Enumerated | |
| 884 | | PoC-Session-Type | Enumerated | |
| 885 | | Number-Of-Participants | Unsigned32 | |
| 886 | | Originator-Address | Grouped | |
| 887 | | Participants-Involved | UTF8String | |
| 888 | | Expires | Unsigned32 | |
| 889 | | Message-Body | Grouped | |
| 890 | | Reserved | - | |
| 891 | | Reserved | - | |
| 892 | | Reserved | - | |
| 893 | | Reserved | - | |
| 894 | | Reserved | - | |
| 895 | | Reserved | - | |
| 896 | | Reserved | - | |
| 897 | | Address-Data | UTF8String | |
| 898 | | Address-Domain | Grouped | |
| 899 | | Address-Type | Enumerated | |
|  | | | | | |
| 900 | | TMGI | OctectString | | 29.061 [13] |
| 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 | |
| 917 | | MBMS-GGSN-IPv6-Address | UTF8String | |
| 918 | | MBMS-BMSC-SSM-IP-Address | UTF8String | |
| 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 TS 29.061 | | | | | |
| 1000 | Bearer-Usage | Enumerated | 29.212 [19] |
| 1001 | | Charging-Rule-Install | Grouped |  |
| 1002 | | Charging-Rule-Remove | Grouped |
| 1003 | | Charging-Rule-Definition | Grouped |
| 1004 | | Charging-Rule-Base-Name | UTF8String |
| 1005 | | Charging-Rule-Name | OctetString |
| 1006 | | Event-Trigger | Enumerated |
| 1007 | | Metering-Method | Enumerated |
| 1008 | | Offline | Enumerated |
| 1009 | | Online | Enumerated |
| 1010 | | Precedence | Unsigned32 |
| 1011 | | Reporting-Level | Enumerated |
| 1012 | | TFT-Filter | IPFilterRule |
| 1013 | | TFT-Packet-Filter-Information | Grouped |
| 1014 | | ToS-Traffic-Class | OctetString |
| 1016 | | QoS-Information | Grouped |
| 1018 | | Charging-Rule-Report | Grouped |
| 1019 | | PCC-Rule-Status | Enumerated |
| 1020 | | Bearer-Identifier | OctetString |
| 1021 | | Bearer-Operation | Enumerated |
| 1022 | | Access-Network-Charging-Identifier-Gx | Grouped |
| 1023 | | Bearer-Control-Mode | Enumerated |
| 1024 | | Network-Request-Support | Enumerated |
| 1025 | | Guaranteed-Bitrate-DL | Unsigned32 |
| 1026 | | Guaranteed-Bitrate-UL | Unsigned32 |
| 1027 | | IP-CAN-Type | Enumerated |
| 1028 | | QoS-Class-Identifier | Enumerated |
| 1029 | | QoS-Negotiation | Enumerated |
| 1030 | | QoS-Upgrade | Enumerated |
| 1031 | | Rule-Failure-Code | Enumerated |
| 1032 | | RAT-Type | Enumerated |
| 1033 | | Event-Report-Indication | Grouped |
| 1034 | | Allocation-Retention-Priority | Grouped |
| 1035 | | CoA-IP-Address | Address |
| 1036 | | Tunnel-Header-Filter | IPFilterRule |
| 1037 | | Tunnel-Header-Length | Unsigned32 |
| 1038 | | Tunnel-Information | Grouped |
| 1039 | | CoA-Information | Grouped |
| 1040 | | APN-Aggregate-Max-Bitrate-DL | Unsigned32 |
| 1041 | | APN-Aggregate-Max-Bitrate-UL | Unsigned32 |
| 1042 | | Revalidation-Time | Time |
| 1043 | | Rule-Activation-Time | Time |
| 1044 | | Rule-DeActivation-Time | Time |
| 1045 | | Session-Release-Cause | Enumerated |
| 1046 | | Priority-Level | Unsigned32 |
| 1047 | | Pre-emption-Capability | Enumerated |
| 1048 | | Pre-emption-Vulnerability | Enumerated |
| 1049 | | Default-EPS-Bearer-QoS | Grouped |
| 1050 | | AN-GW-Address | Address |
| 1051 | | QoS-Rule-Install | Grouped |
| 1052 | | QoS-Rule-Remove | Grouped |
| 1053 | | QoS-Rule-Definition | Grouped |
| 1054 | | QoS-Rule-Name | OctetString |
| 1055 | | QoS-Rule-Report | Grouped |
| 1056 | | Security-Parameter-Index | OctetString |
| 1057 | | Flow-Label | OctetString |
| 1058 | | Flow-Information | Grouped |
| 1059 | | Packet-Filter-Content | IPFilterRule |
| 1060 | | Packet-Filter-Identifier | OctetString |
| 1061 | | Packet-Filter-Information | Grouped |
| 1062 | | Packet-Filter-Operation | Enumerated |
| 1063 | | Resource-Allocation-Notification | Enumerated |
| 1064 | | Session-Linking-Indicator | Enumerated |
| 1065 | | PDN-Connection-ID | OctetString |
| 1066 | | Monitoring-Key | OctetString |
| 1067 | | Usage-Monitoring-Information | Grouped |
| 1068 | | Usage-Monitoring-Level | Enumerated |
| 1069 | | Usage-Monitoring-Report | Enumerated |
| 1070 | | Usage-Monitoring-Support | Enumerated |
| 1071 | | CSG-Information-Reporting | Enumerated |
| 1072 | | Packet-Filter-Usage | Enumerated |
| 1073 | | Charging-Correlation-Indicator | Enumerated |
| 1074 | | QoS-Rule-Base-Name | UTF8String |
| 1075 | | Routing-Rule-Remove | Grouped |
| 1076 | | Routing-Rule-Definition | Grouped |
| 1077 | | Routing-Rule-Identifier | OctetString |
| 1078 | | Routing-Filter | Grouped |
| 1079 | | Routing-IP-Address | Address |
| 1080 | | Flow-Direction | Enumerated |
| 1081 | | Routing-Rule-Install | Grouped |
| 1082 | | Credit-Management-Status | Unsigned32 |
| 1085 | | Redirect-Information | Grouped |
| 1086 | | Redirect- Support | Enumerated |
| 1087 | | TDF-Information | Grouped |
| 1088 | | TDF-Application-Identifier | OctetString |
| 1089 | | TDF-Destination-Host | DiameterIdentity |
| 1090 | | TDF-Destination-Realm | DiameterIdentity |
| 1091 | | TDF-IP-address | Address |
| 1092 | | ADC-Rule-Install | Grouped |
| 1093 | | ADC-Rule-Remove | Grouped |
| 1094 | | ADC-Rule-Definition | Grouped |
| 1095 | | ADC-Rule-Base-Name | UTF8String |
| 1096 | | ADC-Rule-Name | OctetString |
| 1097 | | ADC-Rule-Report | Grouped |
| 1098 | | Application-Detection-Information | Grouped |
| 1099 | | PS-to-CS-Session-Continuity | Enumerated |
| Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212 | | | |
| 1100 | Served-User-Identity | Groupe | 29.140 [16] |
| 1101 | | VASP-ID | UTF8Str |
| 1102 | | VAS-ID | UTF8String |
| 1103 | | Trigger-Event | Enumerated |
| 1104 | | Sender-Address | UTF8String |
| 1105 | | Initial-Recipient-Address | Grouped |
| 1106 | | Result-Recipient-Address | Grouped |
| 1107 | | Sequence-Number | Unsigned32 |
| 1108 | | Recipient-Address | UTF8String |
| 1109 | | Routeing-Address | UTF8String |
| 1110 | | Originating-Interface | Enumerated |
| 1111 | | Delivery-Report | Enumerated |
| 1112 | | Read-Reply | Enumerated |
| 1113 | | Sender-Visibility | Enumerated |
| 1114 | | Service-Key | UTF8String |
| 1115 | | Billing-Information | UTF8String |
| 1116 | | Status | Grouped |
| 1117 | | Status-Code | UTF8String |
| 1118 | | Status-Text | UTF8String |
| Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 | | | |
| 1200 | Domain-Name | UTF8String | 32.299 [5] |
| 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 |
| 1211 | | Message-Type | Enumerated |
| 1212 | | Message-Size | Unsigned32 |
| 1213 | | Message-Class | Grouped |
| 1214 | | Class-Identifier | Enumerated |
| 1215 | | Token-Text | UTF8String |
| 1216 | | Delivery-Report-Requested | Enumerated |
| 1217 | | Adaptations | Enumerated |
| 1218 | | Applic-ID | UTF8String |
| 1219 | | Aux-Applic-Info | UTF8String |
| 1220 | | Content-Class | Enumerated |
| 1221 | | DRM-Content | Enumerated |
| 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 | Grouped |
| 1233 | | LCS-Client-Dialed-By-MS | UTF8String |
| 1234 | | LCS-Client-External-ID | UTF8String |
| 1235 | | LCS-Client-Name | Grouped |
| 1236 | | LCS-Data-Coding-Scheme | UTF8String |
| 1237 | | LCS-Format-Indicator | Enumerated |
| 1238 | | LCS-Name-String | UTF8String |
| 1239 | | LCS-Requestor-Id | Grouped |
| 1240 | | LCS-Requestor-Id-String | UTF8String |
| 1241 | | LCS-Client-Type | Enumerated |
| 1242 | | Location-Estimate | OctetString |
| 1243 | | Location-Estimate-Type | Enumerated |
| 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-Offer-Timestamp | Time |
| 1275 | | SDP-Answer-Timestamp | Time |
| 1276 | | AF-Correlation-Information | Grouped |
| 1277 | | PoC-Session-Initiation-type | Enumerated |
| 1278 | | Offline-Charging | Grouped |
| 1279 | | User-Participating-Type | Enumerated |
| 1280 | | Alternate-Charged-Party-Address | UTF8String |
| 1281 | | IMS-Communication-Service-Identifier | UTF8String |
| 1282 | | Number-Of-Received-Talk-Bursts | Unsigned32 |
| 1283 | | Number-Of-Talk-Bursts | Unsigned32 |
| 1284 | | Received-Talk-Burst-Time | Unsigned32 |
| 1285 | | Received-Talk-Burst-Volume | Unsigned32 |
| 1286 | | Talk-Burst-Time | Unsigned32 |
| 1287 | | Talk-Burst-Volume | Unsigned32 |
| 1288 | | Media-Initiator-Party | UTF8String |
| Note: The AVP codes from 1289 to 1299 are reserved for TS 32.299 | | | |
| 1300 | PC5-Radio-Technology | Enumerated | 32.299 [5] |
| 1301 | RAN-End-Time | Time |
| 1302 | RAN-Secondary-RAT-Usage-Report | Grouped |
| 1303 | RAN-Start-Time | Time |
| 1304 | Secondary-RAT-Type | OctetString |
| 1305 | Civic-Address-Information | UTF8String |
| 1306 | WLAN-Operator-Id | Grouped |
| 1307 | WLAN-Operator-Name | UTF8String |
| 1308 | WLAN-PLMN-Id | UTF8String |
| 1309 | API-Content | UTF8String |
| 1310 | API-Direction | Enumerated |
| 1311 | API-Identifier | OctetString |
| 1312 | API-Invocation-Timestamp | Time |
| 1313 | API-Result-Code | Unsigned32 |
| 1314 | API-Size | Unsigned64 |
| 1315 | API-Network-Service-Node | Enumerated |
| 1316 | Exposure-Function-API-Information | Grouped |
| 1317 | SCEF-Address | Address |
| 1318 | TLTRI | Unsigned32 |
| 1319 | TTRI | Unsigned32 |
| 1320 | 3GPP-OC-Specific-Reduction | Grouped |
| 1321 | 3GPP-OC-Rating-Group | Unsigned32 |
| 1322 | 3GPP-OC-Request-Type | Enumerated |
| 1323 | VoLTE-Information | Grouped |
| Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. | | | |
| 1400 | Subscription-Data | Grouped | 29.272 [21] |
| 1401 | | Terminal-Information | Grouped |
| 1402 | | IMEI | UTF8String |
| 1403 | | Software-Version | UTF8String |
| 1404 | | QoS-Subscribed | UTF8String |
| 1405 | | ULR-Flags | Unsigned32 |
| 1406 | | ULA-Flags | Unsigned32 |
| 1407 | | Visited PLMN Id | OctetString |
| 1408 | | Requested-EUTRAN-Authentication-Info | Grouped |
| 1409 | | Requested-UTRAN- GERAN-Authentication-Info | Grouped |
| 1410 | | Number-Of-Requested-Vectors | Unsigned32 |
| 1411 | | Re-Synchronization-Info | OctetString |
| 1412 | | Immediate-Response-Preferred | Unsigned32 |
| 1413 | | Authentication-Info | Grouped |
| 1414 | | E-UTRAN-Vector | Grouped |
| 1415 | | UTRAN-Vector | Grouped |
| 1416 | | GERAN-Vector | Grouped |
| 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 | Unsigned32 |
| 1427 | | APN-OI-Replacement | UTF8String |
| 1428 | | All-APN-Configurations-Included-Indicator | Enumerated |
| 1429 | | APN-Configuration-Profile | Grouped |
| 1430 | | APN-Configuration | Grouped |
| 1431 | | EPS-Subscribed-QoS-Profile | Grouped |
| 1432 | | VPLMN-Dynamic-Address-Allowed | Enumerated |
| 1433 | | STN-SR | OctetString |
| 1434 | | Alert-Reason | Enumerated |
| 1435 | | AMBR | Grouped |
| 1436 | | CSG-Subscription-Data | Grouped |
| 1437 | | CSG-Id | Unsigned32 |
| 1438 | | PDN-GW-Allocation-Type | Enumerated |
| 1439 | | Expiration-Date | Time |
| 1440 | | RAT-Frequency-Selection-Priority-ID | Unsigned32 |
| 1441 | | IDA-Flags | Unsigned32 |
| 1442 | | PUA-Flags | Unsigned32 |
| 1443 | | NOR-Flags | Unsigned32 |
| 1444 | | User-Id | UTF8String |
| 1445 | | Equipment-Status | Enumerated |
| 1446 | | Regional-Subscription-Zone-Code | OctetString |
| 1447 | | RAND | OctetString |
| 1448 | | XRES | OctetString |
| 1449 | | AUTN | OctetString |
| 1450 | | KASME | OctetString |
| 1451 | | Reserved | - |
| 1452 | | Trace-Collection-Entity | Address |
| 1453 | | Kc | OctetString |
| 1454 | | SRES | OctetString |
| 1455 | | Reserved | - |
| 1456 | | PDN-Type | Enumerated |
| 1457 | | Roaming-Restricted-Due-To-Unsupported-Feature | Enumerated |
| 1458 | | Trace-Data | Grouped |
| 1459 | | Trace-Reference | OctetString |
| 1460 | | Reserved | - |
| 1461 | | Reserved | - |
| 1462 | | Trace-Depth | Enumerated |
| 1463 | | Trace-NE-Type-List | OctetString |
| 1464 | | Trace-Interface-List | OctetString |
| 1465 | | Trace-Event-List | OctetString |
| 1466 | | OMC-Id | OctetString |
| 1467 | | GPRS-Subscription-Data | Grouped |
| 1468 | | Complete-Data-List-Included-Indicator | Enumerated |
| 1469 | | PDP-Context | Grouped |
| 1470 | | PDP-Type | OctetString |
| 1471 | | 3GPP2-MEID | OctetString |
| 1472 | | Specific-APN-Info | Grouped |
| 1473 | | LCS-Info | Grouped |
| 1474 | | GMLC-Number | OctetString |
| 1475 | | LCS-PrivacyException | Grouped |
| 1476 | | SS-Code | OctetString |
| 1477 | | SS-Status | OctetString |
| 1478 | | Notification-To-UE-User | Enumerated |
| 1479 | | External-Client | Grouped |
| 1480 | | Client-Identity | OctetString |
| 1481 | | GMLC-Restriction | Enumerated |
| 1482 | | PLMN-Client | Enumerated |
| 1483 | | Service-Type | Grouped |
| 1484 | | ServiceTypeIdentity | Unsigned32 |
| 1485 | | MO-LR | Grouped |
| 1486 | | Teleservice-List | Grouped |
| 1487 | | TS-Code | Enumerated |
| 1488 | | Call-Barring-Info | Grouped |
| 1489 | | SGSN-Number | OctetString |
| 1490 | | IDR-Flags | Unsigned32 |
| 1491 | | ICS-Indicator | Enumerated |
| 1492 | | IMS-Voice-Over-PS-Sessions-Supported | Enumerated |
| 1493 | | Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions | Enumerated |
| 1494 | | Last-UE-Activity-Time | Time |
| 1495 | | EPS-User-State | Grouped |
| 1496 | | EPS-Location-Information | Grouped |
| 1497 | | MME-User-State | Grouped |
| 1498 | | SGSN-User-State | Grouped |
| 1499 | | User-State | Enumerated |
|  | | | |
| 1500 | | Non-3GPP-User-Data | Grouped | 29.273 [20] |
| 1501 | | Non-3GPP-IP-Access | Enumerated |
| 1502 | | Non-3GPP-IP-Access-APN | Enumerated |
| 1503 | | AN-Trusted | Enumerated |
| 1504 | | ANID | UTF8String |
| 1505 | | Trace-Info | Grouped |
| 1506 | | MIP-FA-RK | OctetString |
| 1507 | | MIP-FA-RK-SPI | Unsigned32 |
| 1508 | | PPR-Flags | Unsigned32 |
| 1509 | | WLAN-Identifier | Grouped |
| 1510 | | TWAN-Access-Info | Grouped |
| 1511 | | Access-Authorization-Flags | Unsigned32 |
| 1512 | | TWAN-Default-APN-Context-Id | Unsigned32 |
| 1513 | | Reserved | - |
| 1514 | | Reserved | - |
| 1515 | | Reserved | - |
| 1516 | | Full-Network-Name | OctetString |
| 1517 | | Short-Network-Name | OctetString |
| 1518 | | AAA-Failure-Indication | Unsigned32 |
| 1519 | | Transport-Access-Type | Enumerated |
| 1520 | | DER-Flags | Unsigned32 |
| 1521 | | DEA-Flags | Unsigned32 |
| 1522 | | RAR-Flags | Unsigned32 |
| 1523 | | DER-S6b-Flags | Unsigned32 |
| 1524 | | SSID | UTF8String |
| 1525 | | HESSID | UTF8String |
| 1526 | | Access-Network-Info | Grouped |
| 1527 | | TWAN-Connection-Mode | Unsigned32 |
| 1528 | | TWAN-Connectivity-Parameters | Grouped |
| 1529 | | Connectivity-Flags | Unsigned32 |
| 1530 | | TWAN-PCO | OctetString | |  |
| 1531 | | TWAG-CP-Address | Address | |
| 1532 | | TWAG-UP-Address | UTF8String | |
| 1533 | | TWAN-S2a-Failure-Cause | Unsigned32 | |
| 1534 | | SM-Back-Off-Timer | Unsigned32 | |
| 1535 | | WLCP-Key | OctetString | |
| 318 | | 3GPP-AAA-Server-Name | DiameterIdentity | |
| 1536 | | Origination-Time-Stamp | Unsigned64 | |
| 1537 | | Maximum-Wait-Time | Unsigned32 | |
| 1538 | | Emergency-Services | 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 3GPP TS 29.234 and is now defined in 3GPP TS 29.273 from Rel-12. | | | | | |
| 1600 | | MME-Location-Information | Grouped | | 29.272 [21] |
| 1601 | | SGSN-Location-Information | Grouped | |
| 1602 | | E-UTRAN-Cell-Global-Identity | OctetString | |
| 1603 | | Tracking-Area-Identity | OctetString | |
| 1604 | | Cell-Global-Identity | OctetString | |
| 1605 | | Routing-Area-Identity | OctetString | |
| 1606 | | Location-Area-Identity | OctetString | |
| 1607 | | Service-Area-Identity | OctetString | |
| 1608 | | Geographical-Information | OctetString | |
| 1609 | | Geodetic-Information | OctetString | |
| 1610 | | Current-Location-Retrieved | Enumerated | |
| 1611 | | Age-Of-Location-Information | Unsigned32 | |
| 1612 | | Active-APN | Grouped | |
| 1613 | | SIPTO-Permission | Enumerated | |
| 1614 | | Error-Diagnostic | Enumerated | |
| 1615 | | UE-SRVCC-Capability | Enumerated | |
| 1616 | | MPS-Priority | Unsigned32 | |
| 1617 | | VPLMN-LIPA-Allowed | Enumerated | |
| 1618 | | LIPA-Permission | Enumerated | |
| 1619 | | Subscribed-Periodic-RAU-TAU-Timer | Unsigned32 | |
| 1620 | | Ext-PDP-Type | OctetString | |
| 1621 | | Ext-PDP-Address | Address | |
| 1622 | | MDT-Configuration | Grouped | |
| 1623 | | Job-Type | Enumerated | |
| 1624 | | Area-Scope | Grouped | |
| 1625 | | List-Of-Measurements | Unsigned32 | |
| 1626 | | Reporting-Trigger | Unsigned32 | |
| 1627 | | Report-Interval | Enumerated | |
| 1628 | | Report-Amount | Enumerated | |
| 1629 | | Event-ThresholdRSRP | Unsigned32 | |
| 1630 | | Event-ThresholdRSRQ | Unsigned32 | |
| 1631 | | Logging-Interval | Enumerated | |
| 1632 | | Logging-Duration | Enumerated | |
| 1633 | | Relay-Node-Indicator | Enumerated | |
| 1634 | | MDT-User-Consent | Enumerated | |
| 1635 | | PUR-Flags | Unsigned32 | |
| 1636 | | Subscribed-VSRVCC | Enumerated | |
| 1637 | | Equivalent-PLMN-List | Grouped | |
| 1638 | | CLR-Flags | Unsigned32 | |
| 1639 | | UVR-Flags | Unsigned32 | |
| 1640 | | UVA-Flags | Unsigned32 | |
| 1641 | | VPLMN-CSG-Subscription-Data | Grouped | |
| 1642 | | Time-Zone | UTF8String | |
| 1643 | | A-MSISDN | OctetString | |
| 1644 | | Reserved | - | |
| 1645 | | MME-Number-for-MT-SMS | OctetString | |
| 1646 | | Reserved | - | |
| 1647 | | Reserved | - | |
| 1648 | | SMS-Register-Request | Enumerated | |
| 1649 | | Local-Time-Zone | Grouped | |
| 1650 | | Daylight-Saving-Time | Enumerated | |
| 1651 | | GMLC-Info | Grouped | |
| 1652 | | GMLC-Name | DiameterIdentity | |
| 1653 | | GMLC-Realm | DiameterIdentity | |
| 1654 | | Subscription-Data-Flags | Unsigned32 | |
| 1655 | | Measurement-Period-LTE | Enumerated | |
| 1656 | | Measurement-Period-UMTS | Enumerated | |
| 1657 | | Collection-Period-RRM-LTE | Enumerated | |
| 1658 | | Collection-Period-RRM-UMTS | Enumerated | |
| 1659 | | Positioning-Method | OctetString | |
| 1660 | | Measurement-Quantity | OctetString | |
| 1661 | | Event-Threshold-Event-1F | Integer32 | |
| 1662 | | Event-Threshold-Event-1I | Integer32 | |
| 1663 | | Restoration-Priority | Unsigned32 | |
| 1664 | | SGs-MME-Identity | UTF8String | |
| 1665 | | SIPTO-Local-Network-Permission | Unsigned32 | |
| 1666 | | Coupled-Node-Diameter-ID | DiameterIdentity | |
| 1667 | | WLAN-offloadability | Grouped | |
| 1668 | | WLAN-offloadability-EUTRAN | Unsigned32 | |
| 1669 | | WLAN-offloadability-UTRAN | Unsigned32 | |
| 1670 | | Reset-ID | OctetString | |
| 1671 | | MDT-Allowed-PLMN-Id | OctetString | |
| 1672 | | Adjacent-PLMNs | Grouped | |
| 1673 | | Adjacent-Access-Restriction-Data | Grouped | |
| 1674 | | DL-Buffering-Suggested-Packet-Count | Integer32 | |
| 1675 | | IMSI-Group-Id | Grouped | |
| 1676 | | Group-Service-Id | Unsigned32 | |
| 1677 | | Group-PLMN-Id | OctetString | |
| 1678 | | Local-Group-Id | OctetString | |
| 1679 | | AIR-Flags | Unsigned32 | |
| 1680 | | UE-Usage-Type | Unsigned32 | |
| 1681 | | Non-IP-PDN-Type-Indicator | Enumerated | |
| 1682 | | Non-IP-Data-Delivery-Mechanism | Unsigned32 | |
| 1683 | | Additional-Context-Identifier | Unsigned32 | |
| 1684 | | SCEF-Realm | DiameterIdentity | |
| 1685 | | Subscription-Data-Deletion | Grouped | |
| 1686 | | Preferred-Data-Mode | Unsigned32 | |
| 1687 | | Emergency-Info | Grouped | |
| 1688 | | V2X-Subscription-Data | Grouped | |
| 1689 | | V2X-Permission | Unsigned32 | |
| 1690 | | PDN-Connection-Continuity | Unsigned32 | |
| 1691 | | eDRX-Cycle-Length | Grouped | |
| 1692 | | eDRX-Cycle-Length-Value | OctetString | |
| 1693 | | UE-PC5-AMBR | Unsigned32 | |
| 1694 | | MBSFN-Area | Grouped | |
| 1695 | | MBSFN-Area-ID | Unsigned32 | |
| 1696 | | Carrier-Frequency | Unsigned32 | |
| 1697 | | RDS-Indicator | Enumerated | |
| 1698 | | Service-Gap-Time | Unsigned32 | |
| 1699 | | Aerial-UE-Subscription-Information | Unsigned32 | |
| 1700 | | Broadcast-Location-Assistance-Data-Types | Unsigned64 | |
| 1701 | | Paging-Time-Window | Grouped | |
| 1702 | | Operation-Mode | Unsigned32 | |
| 1703 | | Paging-Time-Window-Length | OctetString | |
| 1704 | | Core-Network-Restrictions | Unsigned32 | |
| 1705 | | eDRX-Related-RAT | Grouped | |
| 1706 | | Interworking-5GS-Indicator | Enumerated | |
| 1707 | | Ethernet-PDN-Type-Indicator | Enumerated | |
| 1708 | | Subscribed-ARPI | Unsigned32 | |
| 1709 | | IAB-Operation-Permission | Enumerated | |
| 1710 | | V2X-Subscription-Data-Nr | Grouped | |
| 1711 | | UE-PC5-QoS | Grouped | |
| 1712 | | PC5-QoS-Flow | Grouped | |
| 1713 | | 5QI | Integer32 | |
| 1714 | | PC5-Flow-Bitrates | Grouped | |
| 1715 | | Guaranteed-Flow-Bitrates | Integer32 | |
| 1716 | | Maximum-Flow-Bitrates | Integer32 | |
| 1717 | | PC5-Range | Integer32 | |
| 1718 | | PC5-Link-AMBR | Integer32 | |
| 1719 | | Third-Context-ID | Unsigned32 | |
| Note: The AVP codes from 1720 to 1799 are reserved for TS 29.272. | | | | | |
| 2000 | | SMS-Information | Grouped | | 32.299 [5] |
| 2001 | | Data-Coding-Scheme | Integer32 | |
| 2002 | | Destination-Interface | Grouped | |
| 2003 | | Interface-Id | UTF8String | |
| 2004 | | Interface-Port | UTF8String | |
| 2005 | | Interface-Text | UTF8String | |
| 2006 | | Interface-Type | Enumerated | |
| 2007 | | SM-Message-Type | Enumerated | |
| 2008 | | Originating-SCCP-Address | Address | |
| 2009 | | Originator-Interface | Grouped | |
| 2010 | | Recipient-SCCP-Address | Address | |
| 2011 | | Reply-Path-Requested | Enumerated | |
| 2012 | | SM-Discharge-Time | Time | |
| 2013 | | SM-Protocol-ID | OctetString | |
| 2014 | | SM-Status | OctetString | |
| 2015 | | SM-User-Data-Header | OctetString | |
| 2016 | | SMS-Node | Enumerated | |
| 2017 | | SMSC-Address | Address | |
| 2018 | | Client-Address | Address | |
| 2019 | | Number-of-Messages-Sent | Unsigned32 | |
| 2020 | | Low-Balance-Indication | Enumerated | |
| 2021 | | Remaining-Balance | Grouped | |
| 2022 | | Refund-Information | OctetString | |
| 2023 | | Carrier-Select-Routing-Information | UTF8String | |
| 2024 | | Number-Portability-Routing-Information | UTF8String | |
| 2025 | | PoC-Event-Type | Enumerated | |
| 2026 | | Recipient-Info | Grouped | |
| 2027 | | Originator-Received-Address | Grouped | |
| 2028 | | Recipient-Received-Address | Grouped | |
| 2029 | | SM-Service-Type | Enumerated | |
| 2030 | | MMTel-Information | Grouped | |
| 2031 | | MMTel-Sservice-Type | Unsigned32 | |
| 2032 | | Service-Mode | Unsigned32 | |
| 2033 | | Subscriber-Role | Enumerated | |
| 2034 | | Number-Of-Diversions | Unsigned32 | |
| 2035 | | Associated-Party-Address | UTF8String | |
| 2036 | | SDP-Type | Enumerated | |
| 2037 | | Change-Condition | Integer32 | |
| 2038 | | Change-Time | Time | |
| 2039 | | Diagnostics | Integer32 | |
| 2040 | | Service-Data-Container | Grouped | |
| 2041 | | Start-Time | Time | |
| 2042 | | Stop-Time | Time | |
| 2043 | | Time-First-Usage | Time | |
| 2044 | | Time-Last-Usage | Time | |
| 2045 | | Time-Usage | Unsigned32 | |
| 2046 | | Traffic-Data-Volumes | Grouped | |
| 2047 | | Serving-Node-Type | Enumerated | |
| 2048 | | Supplementary-Service | Grouped | |
| 2049 | | Participant-Action-Type | Enumerated | |
| 2050 | | PDN-Connection-Charging-ID | Unsigned32 | |
| 2051 | | Dynamic-Address-Flag | Enumerated | |
| 2052 | | Accumulated-Cost | Grouped | |
| 2053 | | AoC-Cost-Information | Grouped | |
| 2054 | | AoC-Information | Grouped | |
| 2055 | | AoC-Request-Type | Enumerated | |
| 2056 | | Current-Tariff | Grouped | |
| 2057 | | Next-Tariff | Grouped | |
| 2058 | | Rate-Element | Grouped | |
| 2059 | | Scale-Factor | Grouped | |
| 2060 | | Tariff-Information | Grouped | |
| 2061 | | Unit-Cost | Grouped | |
| 2062 | | Incremental-Cost | Grouped | |
| 2063 | | Local-Sequence-Number | Unsigned32 | |
| 2064 | | Node-Id | UTF8String | |
| 2065 | | SGW-Change | Enumerated | |
| 2066 | | Charging-Characteristic-Selection-Mode | Enumerated | |
| 2067 | | SGW-Address | Address | |
| 2068 | | Dynamic-Address-Flag-Extension | Enumerated | |
| Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. | | | | | |
| 2100 | | reserved | - | | 32.299 [5] |
| 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 | |
| 2117 | | Content-provider-ID | UTF8String | |
| 2118 | | Charge-Reason-Code | Enumerated | |
| Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. | | | | | |
| 2200 | | Subsession-Decision-Info | Grouped | | 29.215 [22] |
| 2201 | | Subsession-Enforcement-Info | Grouped | |
| 2202 | | Subsession-Id | Unsigned32 | |
| 2203 | | Subsession-Operation | Enumerated | |
| 2204 | | Multiple-BBERF-Action | Enumerated | |
| 2205 | | UE-Local-IPv6-Prefix | OctetString | |
| 2206 | | DRA-Deployment | Enumerated | |
| 2207 | | PCRF-Address | DiameterIdentity | |
| 2208 | | DRA-Binding | Enumerated | |
| Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. | | | | | |
| 2300 | | reserved | - | | 32.299 [5] |
| 2301 | | SIP-Request-Timestamp-Fraction | Unsigned32 | |
| 2302 | | SIP-Response-Timestamp-Fraction | Unsigned32 | |
| 2303 | | Online-Charging-Flag | Enumerated | |
| 2304 | | CUG-Information | OctetString | |
| 2305 | | Real-Time-Tariff-Information | Grouped | |
| 2306 | | Tariff-XML | UTF8String | |
| 2307 | | MBMS GW-Address | Address | |
| 2308 | | IMSI-Unauthenticated-Flag | Enumerated | |
| 2309 | | Account-Expiration | Time | |
| 2310 | | AoC-Format | Enumerated | |
| 2311 | | AoC-Service | Enumerated | |
| 2312 | | AoC-Service-Obligatory-Type | Grouped | |
| 2313 | | AoC-Service-Type | Enumerated | |
| 2314 | | AoC-Subscription-Information | Grouped | |
| 2315 | | Preferred-AoC-Currency | Unsigned32 | |
| 2316 | | Reserved | - | |
| 2317 | | CSG-Access-Mode | Enumerated | |
| 2318 | | CSG-Membership-Indication | Enumerated | |
| 2319 | | User-CSG-Information | Grouped | |
| 2320 | | Outgoing-Session-Id | UTF8String | |
| 2321 | | Initial-IMS-Charging-Identifier | UTF8String | |
| 2322 | | IMS-Emergency-Indicator | Enumerated | |
| 2323 | | MBMS-Charged-Party | Enumerated | |
| Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299. | | | | | |
| 2400 | | LMSI | OctetString | | 29.173 [25] |
| 2401 | | Serving-Node | Grouped | |
| 2402 | | MME-Name | DiameterIdentity | |
| 2403 | | MSC-Number | OctetString | |
| 2404 | | LCS-Capabilities-Sets | Unsigned32 | |
| 2405 | | GMLC-Address | Address | |
| 2406 | | Additional-Serving-Node | Grouped | |
| 2407 | | PPR-Address | Address | |
| 2408 | | MME-Realm | DiameterIdentity | |
| 2409 | | SGSN-Name | DiameterIdentity | |
| 2410 | | SGSN-Realm | DiameterIdentity | |
| 2411 | | RIA-Flags | Unsigned32 | |
| Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173. | | | | | |
| 2500 | | SLg-Location-Type | Enumerated | | 29.172 [24] |
| 2501 | | LCS-EPS-Client-Name | Grouped | |
| 2502 | | LCS-Requestor-Name | Grouped | |
| 2503 | | LCS-Priority | Unsigned32 | |
| 2504 | | LCS-QoS | Grouped | |
| 2505 | | Horizontal-Accuracy | Unsigned32 | |
| 2506 | | Vertical-Accuracy | Unsigned32 | |
| 2507 | | Vertical-Requested | Enumerated | |
| 2508 | | Velocity-Requested | Enumerated | |
| 2509 | | Response-Time | Enumerated | |
| 2510 | | Supported-GAD-Shapes | Unsigned32 | |
| 2511 | | LCS-Codeword | UTF8String | |
| 2512 | | LCS-Privacy-Check | Enumerated | |
| 2513 | | Accuracy-Fulfilment-Indicator | Enumerated | |
| 2514 | | Age-Of-Location-Estimate | Unsigned32 | |
| 2515 | | Velocity-Estimate | OctetString | |
| 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 | Grouped | |
| 2535 | | Area | Grouped | |
| 2536 | | Area-Type | Unsigned32 | |
| 2537 | | Area-Identification | Grouped | |
| 2538 | | Occurrence-Info | Enumerated | |
| 2539 | | Interval-Time | Unsigned32 | |
| 2540 | | Periodic-LDR-Information | Grouped | |
| 2541 | | Reporting-Amount | Unsigned32 | |
| 2542 | | Reporting-Interval | Unsigned32 | |
| 2543 | | Reporting-PLMN-List | Grouped | |
| 2544 | | PLMN-ID-List | Grouped | |
| 2545 | | PLR-Flags | Unsigned32 | |
| 2546 | | PLA-Flags | Unsigned32 | |
| 2547 | | Deferred-MT-LR-Data | Grouped | |
| 2548 | | Termination-Cause | Unsigned32 | |
| 2549 | | LRA-Flags | Unsigned32 | |
| 2550 | | Periodic-Location-Support-Indicator | Enumerated | |
| 2551 | | Prioritized-List-Indicator | Enumerated | |
| 2552 | | ESMLC-Cell-Info | Grouped | |
| 2553 | | Cell-Portion-ID | Unsigned32 | |
| 2554 | | 1xRTT-RCID | OctetString | |
| 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 | - | | 32.299 [5] |
| 2601 | | IMS-Application-Reference-Identifier | UTF8String | |
| 2602 | | Low-Priority-Indicator | Enumerated | |
| 2603 | | IP-Realm-Default-Indicator | Enumerated | |
| 2604 | | Local-GW-Inserted-Indicator | Enumerated | |
| 2605 | | Transcoder-Inserted-Indicator | Enumerated | |
| 2606 | | PDP-Address-Prefix-Length | Unsigned32 | |
| Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299. | | | | | |
| 2700 | | Reserved | - | | 32.299 [5] |
| 2701 | | Transit-IOI-List | UTF8String | |
| 2702 | | Status-AS-Code | Enumerated | |
| 2703 | | NNI-Information | Grouped | |
| 2704 | | NNI-Type | Enumerated | |
| 2705 | | Neighbour-Node-Address | Address | |
| 2706 | | Relationship-Mode | Enumerated | |
| 2707 | | Session-Direction | Enumerated | |
| 2708 | | From-Address | UTF8String | |
| 2709 | | Access-Transfer-Information | Grouped | |
| 2710 | | Access-Transfer-Type | Enumerated | |
| 2711 | | Related-IMS-Charging-Identifier | UTF8String | |
| 2712 | | Related-IMS-Charging-Identifier-Node | Address | |
| 2713 | | IMS-Visited-Network-Identifier | UTF8String | |
| 2714 | | TWAN-User-Location-Info | Grouped | |
| 2715 | | Reserved | - | |
| 2716 | | BSSID | UTF8String | |
| 2717 | | TAD-Identifier | Enumerated | |
| Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299. | | | | | |
| 2800 | | Reserved | - | | 29.212 [19] |
| 2801 | | ADC-Revalidation-Time | Time | |
| 2802 | | TDF-Application-Instance-Identifier | OctetString | |
| 2803 | | HeNB-BBF-FQDN | UTF8String | |
| 2804 | | HeNB-Local-IP-Address | Address | |
| 2805 | | UE-Local-IP-Address | Address | |
| 2806 | | UDP-Source-Port | Unsigned32 | |
| 2807 | | CS-Service-Qos-Request-Identifier | OctetString | |
| 2808 | | CS-Service-QoS-Request-Operation | Enumerated | |
| 2809 | | Mute-Notification | Enumerated | |
| 2810 | | Monitoring-Time | Time | |
| 2811 | | AN-GW-Status | Enumerated | |
| 2812 | | User-Location-Info-Time | Grouped | |
| 2813 | | CS-Service-Resource-Report | Time | |
| 2814 | | CS-Service-Resource-Failure-Cause | Enumerated | |
| 2815 | | CS-Service-Resource-Result-Operation | Enumerated | |
| 2816 | | Default-QoS-Information | Grouped | |
| 2817 | | Default-QoS-Name | UTF8String | |
| 2818 | | Conditional-APN-Aggregate-Max-Bitrate | Grouped | |
| 2819 | | RAN-NAS-Release-Cause | OctetString | |
| 2820 | | Presence-Reporting-Area-Elements-List | OctetString | |
| 2821 | | Presence-Reporting-Area-Identifier | OctetString | |
| 2822 | | Presence-Reporting-Area-Information | Grouped | |
| 2823 | | Presence-Reporting-Area-Status | Unsigned32 | |
| 2824 | | NetLoc-Access-Support | Unsigned32 | |
| 2825 | | Fixed-User-Location-Info | Grouped | |
| 2826 | | PCSCF-Restoration-Indication | Unsigned32 | |
| 2827 | | IP-CAN-Session-Charging-Scope | Enumerated | |
| 2828 | | Monitoring-Flags | Unsigned32 | |
| 2829 | | Default-Access | Enumerated | |
| 2830 | | NBIFOM-Mode | Enumerated | |
| 2831 | | NBIFOM-Support | Enumerated | |
| 2832 | | RAN-Rule-Support | Unsigned32 | |
| 2833 | | Access-Availability-Change-Reason | Unsigned32 | |
| 2834 | | Routing-Rule-Failure-Code | Unsigned32 | |
| 2835 | | Routing-Rule-Report | Grouped | |
| 2836 | | Traffic-Steering-Policy-Identifier-DL | OctetString | |
| 2837 | | Traffic-Steering-Policy-Identifier-UL | OctetString | |
| 2838 | | Request-Type | Unsigned32 | |
| 2839 | | Execution-Time | Time | |
| 2840 | | Conditional-Policy-Information | Grouped | |
| 2841 | | Resource-Release-Notification | Enumerated | |
| 2842 | | Removal-Of-Access | Enumerated | |
| 2843 | | TCP-Source-Port | Unsigned32 | |
| 2844 | | Default-Bearer-Indication | Enumerated | |
| 2845 | | PRA-Install | Grouped | |
| 2846 | | PRA-Remove | Grouped | |
| 2847 | | 3GPP-PS-Data-Off-Status | Enumerated | |
| 2848 | | Extended-APN-AMBR-DL | Unsigned32 | |
| 2849 | | Extended-APN-AMBR-UL | Unsigned32 | |
| 2850 | | Extended-GBR-DL | Unsigned32 | |
| 2851 | | Extended-GBR-UL | Unsigned32 | |
| 2852 | | Max-PLR-DL | Unsigned32 | |
| 2853 | | Max-PLR-UL | Unsigned32 | |
| 2854 | | UE-Status | Unsigned32 | |
| Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212. | | | | | |
| 2900 | | reserved | - | | 29.219 [26] |
| 2901 | | Policy-Counter-Identifier | Grouped | |
| 2902 | | Policy-Counter-Status | UTF8String | |
| 2903 | | Policy-Counter-Status-Report | Grouped | |
| 2904 | | SL-Request-Type | Enumerated | |
| 2905 | | Pending-Policy-Counter-Information | Grouped | |
| 2906 | | Pending-Policy-Counter-Change-Time | Time | |
| 2907 | | SN-Request-Type | Unsigned32 | |
| Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. | | | | | |
| 3000 | | reserved | - | | 29.368 [27] |
| 3001 | | Device-Action | Grouped | |
| 3002 | | Device-Notification | Grouped | |
| 3003 | | Trigger-Data | Grouped | |
| 3004 | | Payload | OctetString | |
| 3005 | | Action-Type | Enumerated | |
| 3006 | | Priority-Indication | Enumerated | |
| 3007 | | Reference-Number | Unsigned32 | |
| 3008 | | Request-Status | Enumerated | |
| 3009 | | Delivery-Outcome | Enumerated | |
| 3010 | | Application-Port-Identifier | Unsigned32 | |
| 3011 | | Old-Reference-Number | Unsigned32 | |
| 3012 | | Feature-Supported-In-Final-Target | Unsigned32 | |
| Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368. | | | | | |
| 3100 | | IP-SM-GW-Number | OctetString | | 29.336 [28] |
| 3101 | | IP-SM-GW-Name | DiameterIdentity | |
| 3102 | | User-Identifier | Grouped | |
| 3103 | | Service-ID | Enumerated | |
| 3104 | | SCS-Identity | OctetString | |
| 3105 | | Service-Parameters | Grouped | |
| 3106 | | T4-Parameters | Grouped | |
| 3107 | | Service-Data | Grouped | |
| 3108 | | T4-Data | Grouped | |
| 3109 | | HSS-Cause | Unsigned32 | |
| 3110 | | SIR-Flags | Unsigned32 | |
| 3111 | | External-Identifier | UTF8String | |
| 3112 | | IP-SM-GW-Realm | DiameterIdentity | |
| 3113 | | AESE-Communication-Pattern | Grouped | |
| 3114 | | Communication-Pattern-Set | Grouped | |
| 3115 | | Periodic-Communication-Indicator | Unsigned32 | |
| 3116 | | Communication-Duration-Time | Unsigned32 | |
| 3117 | | Periodic-Time | Unsigned32 | |
| 3118 | | Scheduled-Communication-Time | Grouped | |
| 3119 | | Stationary-Indication | Unsigned32 | |
| 3120 | | AESE-Communication-Pattern-Config-Status | Grouped | |
| 3121 | | AESE-Error-Report | Grouped | |
| 3122 | | Monitoring-Event-Configuration | Grouped | |
| 3123 | | Monitoring-Event-Report | Grouped | |
| 3124 | | SCEF-Reference-ID | Unsigned32 | |
| 3125 | | SCEF-ID | DiameterIdentity | |
| 3126 | | SCEF-Reference-ID-for-Deletion | Unsigned32 | |
| 3127 | | Monitoring-Type | Unsigned32 | |
| 3128 | | Maximum-Number-of-Reports | Unsigned32 | |
| 3129 | | UE-Reachability-Configuration | Grouped | |
| 3130 | | Monitoring-Duration | Time | |
| 3131 | | Maximum-Detection-Time | Unsigned32 | |
| 3132 | | Reachability-Type | Unsigned32 | |
| 3133 | | Maximum-Latency | Unsigned32 | |
| 3134 | | Maximum-Response-Time | Unsigned32 | |
| 3135 | | Location-Information-Configuration | Grouped | |
| 3136 | | MONTE-Location-Type | Unsigned32 | |
| 3137 | | Accuracy | Unsigned32 | |
| 3138 | | Association-Type | Unsigned32 | |
| 3139 | | Roaming-Information | Unsigned32 | |
| 3140 | | Reachability-Information | Unsigned32 | |
| 3141 | | IMEI-Change | Unsigned32 | |
| 3142 | | Monitoring-Event-Config-Status | Grouped | |
| 3143 | | Supported-Service | Grouped | |
| 3144 | | Supported-Monitoring-Event | Unsigned64 | |
| 3145 | | CIR-Flags | Unsigned32 | |
| 3146 | | Service-Result | Grouped | |
| 3147 | | Service-Result-Code | Unsigned32 | |
| 3148 | | Reference-ID-Validity-Time | Time | |
| 3149 | | Event-handling | Unsigned32 | |
| 3150 | | NIDD-Authorization-Request | Grouped | |
| 3151 | | NIDD-Authorization-Response | Grouped | |
| 3152 | | Service-Report | Grouped | |
| 3153 | | Node-Type | Unsigned32 | |
| 3154 | | S6t-HSS-Cause | Unsigned32 | |
| 3155 | | Enhanced-Coverage-Restriction | Grouped | |
| 3156 | | Enhanced-Coverage-Restriction-Data | Grouped | |
| 3157 | | Restricted-PLMN-List | Grouped | |
| 3158 | | Allowed-PLMN-List | Grouped | |
| 3159 | | Requested-Validity-Time | Time | |
| 3160 | | Granted-Validity-Time | Time | |
| 3161 | | NIDD-Authorization-Update | Grouped | |
| 3162 | | Loss-Of-Connectivity-Reason | Unsigned32 | |
| 3163 | | Group-Reporting-Guard-Timer | Unsigned32 | |
| 3164 | | CIA-Flags | Unsigned32 | |
| 3165 | | Group-Report | Grouped | |
| 3166 | | Group-Report-Item | Grouped | |
| 3167 | | RIR-Flags | Unsigned32 | |
| 3168 | | Type-Of-External-Identifier | Unsigned32 | |
| 3169 | | APN-Validity-Time | Grouped | |
| 3170 | | Suggested-Network-Configuration | Grouped | |
| 3171 | | Monitoring-Event-Report-Status | Grouped | |
| 3172 | | PLMN-ID-Requested | Enumerated | |
| 3173 | | AdditionalIdentifiers | Grouped | |
| 3174 | | NIR-Flags | Unsigned32 | |
| 3175 | | Reporting-Time-Stamp | Time | |
| 3176 | | Group-User-Identifier | Grouped | |
| 3177 | | NIA-Flags | Unsigned32 | |
| 3178 | | MTC-Provider-Info | Grouped | |
| 3179 | | MTC-Provider-ID | UTF8String | |
| 3180 | | PDN-Connectivity-Status-Configuration | Grouped | |
| 3181 | | PDN-Connectivity-Status-Report | Grouped | |
| 3182 | | PDN-Connectivity-Status-Type | Unsigned32 | |
| 3183 | | Traffic-Profile | Unsigned32 | |
| 3184 | | Updated-Network-Configuration | Grouped | |
| 3185 | | Battery-Indicator | Unsigned32 | |
| 3186 | | SCEF-Reference-ID-Ext | Unsigned64 | |
| 3187 | | SCEF-Reference-ID-for-Deletion-Ext | Unsigned64 | |
| Note: The AVP codes from 3188 to 3199 are reserved for TS 29.336. | | | | | |
| 3200 | | SM-Delivery-Outcome-T4 | Enumerated | | 29.337 [29] |
| 3201 | | Absent-Subscriber-Diagnostic-T4 | Enumerated | |
| 3202 | | Trigger-Action | Unsigned32 | |
| 3203 | | MTC-Error-Diagnostic | Unsigned32 | |
| Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. | | | | | |
| 3300 | | SC-Address | OctetString | | 29.338 [30] |
| 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 | |
| 3317 | | MME-SM-Delivery-Outcome | Grouped | |
| 3318 | | MSC-SM-Delivery-Outcome | Grouped | |
| 3319 | | SGSN-SM-Delivery-Outcome | Grouped | |
| 3320 | | IP-SM-GW-SM-Delivery-Outcome | Grouped | |
| 3321 | | SM-Delivery-Cause | Enumerated | |
| 3322 | | Absent-User-Diagnostic-SM | Unsigned32 | |
| 3323 | | RDR-Flags | Unsigned32 | |
| 3324 | | SMSMI-Correlation-ID | Unsigned32 | |
| 3325 | | HSS-ID | UTF8String | |
| 3326 | | Originating-SIP-URI | UTF8String | |
| 3327 | | Destination-SIP-URI | UTF8String | |
| 3328 | | OFR-Flags | Unsigned32 | |
| 3329 | | Maximum-UE-Availability-Time | Time | |
| 3330 | | Maximum-Retransmission-Time | Time | |
| 3331 | | Requested-Retransmission-Time | Time | |
| 3332 | | SMS-GMSC-Address | OctetString | |
| 3333 | | SMS-GMSC-Alert-Event | Unsigned32 | |
| 3334 | | SMSF-3GPP-Absent-User-Diagnostic-SM | Unsigned32 | |
| 3335 | | SMSF-Non-3GPP-Absent-User-Diagnostic-SM | Unsigned32 | |
| 3336 | | SMSF-3GPP-SM-Delivery-Outcome | Grouped | |
| 3337 | | SMSF-Non-3GPP-SM-Delivery-Outcome | Grouped | |
| 3338 | | SMSF-3GPP-Number | OctetString | |
| 3339 | | SMSF-Non-3GPP-Number | OctetString | |
| 3340 | | SMSF-3GPP-Name | DiameterIdentity | |
| 3341 | | SMSF-Non-3GPP-Name | DiameterIdentity | |
| 3342 | | SMSF-3GPP-Realm | DiameterIdentity | |
| 3343 | | SMSF-Non-3GPP-Realm | DiameterIdentity | |
| 3344 | | SMSF-3GPP-Address | Grouped | |
| 3345 | | SMSF-Non-3GPP-Address | Grouped | |
| Note: The AVP codes from 3346 to 3399 are reserved for TS 29.338. | | | | | |
| 3400 | | reserved | - | | 32.299 [5] |
| 3401 | | Reason-Header | UTF8String | |
| 3402 | | Instance-Id | UTF8String | |
| 3403 | | Route-Header-Received | UTF8String | |
| 3404 | | Route-Header-Transmitted | UTF8String | |
| 3405 | | SM-Device-Trigger-Information | Grouped | |
| 3406 | | MTC-IWF-Address | Address | |
| 3407 | | SM-Device-Trigger-Indicator | Enumerated | |
| 3408 | | SM-Sequence-Number | Unsigned32 | |
| 3409 | | SMS-Result | Unsigned32 | |
| 3410 | | VCS-Information | Grouped | |
| 3411 | | Basic-Service-Code | Grouped | |
| 3412 | | Bearer-Capability | OctetString | |
| 3413 | | Teleservice | OctetString | |
| 3414 | | ISUP-Location-Number | OctetString | |
| 3415 | | Forwarding-Pending | Enumerated | |
| 3416 | | ISUP-Release-Cause | Unsigned32 | |
| 3417 | | MSC-Address | OctetString | |
| 3418 | | Network-Call-Reference-Number | OctetString | |
| 3419 | | Start-of-Charging | Time | |
| 3420 | | VLR-Number | OctetString | |
| 3421 | | CN-Operator-Selection-Entity | Enumerated | |
| 3422 | | ISUP-Cause-Diagnostics | OctetString | |
| 3423 | | ISUP-Cause-Location | Unsigned32 | |
| 3424 | | ISUP-Cause-Value | Unsigned32 | |
| 3425 | | EPDG-Address | Address | |
| 3426 | | Announcing-UE-HPLMN-Identifier | UTF8String | |
| 3427 | | Announcing-UE-VPLMN-Identifier | UTF8String | |
| 3428 | | Coverage-Status | Enumerated | |
| 3429 | | Layer-2-Group-ID | OctetString | |
| 3430 | | Monitored-PLMN-Identifier | UTF8String | |
| 3431 | | Monitoring-UE-HPLMN-Identifier | UTF8String | |
| 3432 | | Monitoring-UE-Identifier | UTF8String | |
| 3433 | | Monitoring-UE-VPLMN-Identifier | UTF8String | |
| 3434 | | ProSe-PC3-Control-Protocol-Cause | Integer32 | |
| 3435 | | ProSe-PC3-EPC-Control-Protocol-Cause | Integer32 | |
| 3436 | | Requested-PLMN-Identifier | UTF8String | |
| 3437 | | Requestor-PLMN-Identifier | UTF8String | |
| 3438 | | Role-Of-ProSe-Function | Enumerated | |
| 3439 | | Usage-Information-Report-Sequence-Number | Integer32 | |
| 3440 | | ProSe-3rd-Party-Application-ID | UTF8String | |
| 3441 | | ProSe-Direct-Communication-Transmission-Data-Container | Grouped | |
| 3442 | | ProSe-Direct-Discovery-Model | Enumerated | |
| 3443 | | ProSe-Event-Type | Enumerated | |
| 3444 | | ProSe-Function-IP-Address | Address | |
| 3445 | | ProSe-Functionality | Enumerated | |
| 3446 | | ProSe-Group-IP-Multicast-Addresses | Address | |
| 3447 | | ProSe-Information | Grouped | |
| 3448 | | ProSe-Range-Class | Enumerated | |
| 3449 | | ProSe-Reason-For-Cancellation | Enumerated | |
| 3450 | | ProSe-Request-Timestamp | Time | |
| 3451 | | ProSe-Role-Of-UE | Enumerated | |
| 3452 | | ProSe-Source-IP-Address | Address | |
| 3453 | | ProSe-UE-ID | OctetString | |
| 3454 | | Proximity-Alert-Indication | Enumerated | |
| 3455 | | Proximity-Alert-Timestamp | Time | |
| 3456 | | Proximity-Cancellation-Timestamp | Time | |
| 3457 | | ProSe-Function-PLMN-Identifier | UTF8String | |
| 3458 | | Application-Specific-Data | OctetString | |
| 3459 | | Coverage-Info | Grouped | |
| 3460 | | Location-Info | Grouped | |
| 3461 | | ProSe-Direct-Communication-Reception-Data-Container | Grouped | |
| 3462 | | Radio-Frequency | OctetString | |
| 3463 | | Radio-Parameter-Set-Info | Grouped | |
| 3464 | | Radio-Parameter-Set-Values | OctetString | |
| 3465 | | Radio-Resources-Indicator | Integer32 | |
| 3466 | | Time-First-Reception | Time | |
| 3467 | | Time-First-Transmission | Time | |
| 3468 | | Transmitter-Info | Grouped | |
| Note: The AVP codes from 3469 to 3499 are reserved for TS 32.299. | | | | | |
| 3500 | | BMSC‑Address | Address | | 29.468 [31] |
| 3501 | | BMSC‑Port | Unsigned32 | |
| 3502 | | MBMS‑Bearer‑Event | Unsigned32 | |
| 3503 | | MBMS‑Bearer‑Event‑Notification | Grouped | |
| 3504 | | MBMS‑Bearer‑Request | Grouped | |
| 3505 | | MBMS‑Bearer‑Response | Grouped | |
| 3506 | | MBMS‑Bearer‑Result | Unsigned32 | |
| 3507 | | MBMS‑Start‑Time | Time | |
| 3508 | | Radio‑Frequency | Unsigned32 | |
| 3509 | | TMGI‑Allocation‑Request | Grouped | |
| 3510 | | TMGI‑Allocation‑Response | Grouped | |
| 3511 | | TMGI‑Allocation‑Result | Unsigned32 | |
| 3512 | | TMGI‑Deallocation‑Request | Grouped | |
| 3513 | | TMGI‑Deallocation‑Response | Grouped | |
| 3514 | | TMGI‑Deallocation‑Result | Unsigned32 | |
| 3515 | | TMGI‑Expiry | Grouped | |
| 3516 | | TMGI‑Number | Unsigned32 | |
| 3517 | | MB2U‑Security | Unsigned32 | |
| 3518 | | Local-M1-Information | Grouped | |
| 3519 | | Local-MB2-U-Information | Grouped | |
| 3520 | | MBMS-eNB-IP-Multicast-Address | Address | |
| 3521 | | MBMS-eNB-IPv6-Multicast-Address | Address | |
| 3522 | | MBMS-GW-SSM-IP-Address | Address | |
| 3523 | | MBMS-GW-SSM-IPv6-Address | Address | |
| 3524 | | Common-Tunnel-Endpoint-Identifier | OctetString | |
| 3525 | | FEC-Request | OctetString | |
| 3526 | | ROHC‑Request | Grouped | |
| 3527 | | ROHC-Full-Header-Periodicity | Float32 | |
| 3528 | | ROHC‑Profile | Unsigned32 | |
| 3529 | | Userplane-Protocol‑Result | Grouped | |
| 3530 | | ROHC‑Result | Unsigned32 | |
| 3531 | | FEC‑Result | Unsigned32 | |
| 3532 | | ROHC-Max-CID | Unsigned32 | |
| Note: The AVP codes from 3533 to 3599 are reserved for TS 29.468. | | | | | |
| 3600 | | Origin-App-Layer-User-Id | UTF8String | | 29.343 [32] |
| 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 | | 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 | |
| Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343. | | | | | |
| 3701 | | ProSe-Subscription-Data | Grouped | | 29.344 [33] |
| 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 |  | | 29.345 [34] |
| 3801 | | App-Layer-User-Id | UTF8String | |
| 3802 | | Assistance-info | Grouped | |
| 3803 | | Assistance-Info-Validity-Timer | Unsigned32 | |
| 3804 | | Discovery-Type | Unsigned32 | |
| 3805 | | Filter-Id | OctetString | |
| 3806 | | MAC-Address | UTF8String | |
| 3807 | | Match-Report | Grouped | |
| 3808 | | Operating-Channel | Unsigned32 | |
| 3809 | | P2P-Features | Unsigned32 | |
| 3810 | | ProSe-App-Code | UTF8String | |
| 3811 | | ProSe-App-Id | UTF8String | |
| 3812 | | ProSe-App-Mask | UTF8String | |
| 3813 | | ProSe-Discovery-Filter | Grouped | |
| 3814 | | PRR-Flags | Unsigned32 | |
| 3815 | | ProSe-Validity-Timer | Unsigned32 | |
| 3816 | | Requesting-EPUID | UTF8String | |
| 3817 | | Targeted-EPUID | UTF8String | |
| 3818 | | Time-Window | Unsigned32 | |
| 3819 | | WiFi-P2P-Assistance-Info | Grouped | |
| 3820 | | WLAN-Assistance-Info | Grouped | |
| 3821 | | WLAN-Link-Layer-Id | OctetString | |
| 3822 | | WLAN-Link-Layer-Id-List | Grouped | |
| 3823 | | Location-Update-Trigger | Grouped | |
| 3824 | | Location-Update-Event-Type | Unsigned32 | |
| 3825 | | Change-Of-Area-Type | Grouped | |
| 3826 | | Location-Update-Event-Trigger | Unsigned32 | |
| 3827 | | Report-Cardinality | Enumerated | |
| 3828 | | Minimum-Interval-Time | Unsigned32 | |
| 3829 | | Periodic-Location-Type | Grouped | |
| 3830 | | Location-Report-Interval-Time | Unsigned32 | |
| 3831 | | Total-Number-Of-Reports | Unsigned32 | |
| 3832 | | Validity-Time-Announce | Unsigned32 | |
| 3833 | | Validity-Time-Monitor | Unsigned32 | |
| 3834 | | Validity-Time-Communication | Unsigned32 | |
| 3835 | | ProSe-App-Code-Info | Grouped | |
| 3836 | | MIC | OctetString | |
| 3837 | | UTC-based-Counter | Unsigned32 | |
| 3838 | | ProSe-Match-Refresh-Timer | Unsigned32 | |
| 3839 | | ProSe-Metadata-Index-Mask | OctetString | |
| 3840 | | App-Identifier | Grouped | |
| 3841 | | OS-ID | OctetString | |
| 3842 | | OS-App-ID | UTF8String | |
| 3843 | | Requesting-RPAUID | UTF8String | |
| 3844 | | Target-RPAUID | UTF8String | |
| 3845 | | Target-PDUID | OctetString | |
| 3846 | | ProSe-Restricted-Code | OctetString | |
| 3847 | | ProSe-Restricted-Code-Suffix-Range | OctetString | |
| 3848 | | Beginning-Suffix | OctetString | |
| 3849 | | Ending-Suffix | OctetString | |
| 3850 | | Discovery-Entry-ID | Unsigned32 | |
| 3851 | | Match-Timestamp | Time | |
| 3852 | | PMR-Flags | Unsigned32 | |
| 3853 | | ProSe-Application-Metadata | UTF8String | |
| 3854 | | Discovery-Auth-Request | Grouped | |
| 3855 | | Discovery-Auth-Response | Grouped | |
| 3856 | | Match-Request | Grouped | |
| 3857 | | Match-Report-Info | Grouped | |
| 3858 | | Banned-RPAUID | UTF8String | |
| 3859 | | Banned-PDUID | OctetString | |
| 3860 | | Code-Receiving-Security-Material | Grouped | |
| 3861 | | Code-Sending-Security-Material | Grouped | |
| 3862 | | DUSK | OctetString | |
| 3863 | | DUIK | OctetString | |
| 3864 | | DUCK | OctetString | |
| 3865 | | MIC-Check-indicator | Unsigned32 | |
| 3866 | | Encrypted-Bitmask | OctetString | |
| 3867 | | ProSe-App-Code-Suffix-Range | OctetString | |
| 3868 | | PC5-tech | OctetString | |
| Note: The AVP codes from 3869 to 3899 are reserved for TS 29.345. | | | | | |
| 3900 | | Reserved |  | | 32.299 [5] |
| 3901 | | Enhanced-Diagnostics | Grouped | |
| 3902 | | Inter-UE-Transfer | Enumerated | |
| 3903 | | TWAG-Address | Address | |
| 3904 | | Announcement-Information | Grouped | |
| 3905 | | Announcement-Identifier | Unsigned32 | |
| 3906 | | Announcement-Order | Unsigned32 | |
| 3907 | | Variable-Part | Grouped | |
| 3908 | | Variable-Part-Order | Unsigned32 | |
| 3909 | | Variable-Part-Type | Unsigned32 | |
| 3910 | | Variable-Part-Value | UTF8String | |
| 3911 | | Time-Indicator | Unsigned32 | |
| 3912 | | Quota-Indicator | Enumerated | |
| 3913 | | Play-Alternative | Enumerated | |
| 3914 | | Language | UTF8String | |
| 3915 | | Privacy-Indicator | Enumerated | |
| 3916 | | Called-Identity | UTF8String | |
| 3917 | | Called-Identity-Change | Grouped | |
| 3918 | | UWAN-User-Location-Info | Grouped | |
| 3919 | | Monitoring-Event-Configuration-Activity | Integer32 | |
| 3920 | | Monitoring-Event-Report-Data | Grouped | |
| 3921 | | Monitoring-Event-Information | Grouped | |
| 3922 | | Monitoring-Event-Functionality | Integer32 | |
| 3923 | | Monitoring-Event-Report-Number | Unsigned32 | |
| 3924 | | Cellular-Network-Information | OctetString | |
| 3925 | | Related-Change-Condition-Information | Grouped | |
| 3926 | | Related-Trigger | Grouped | |
| 3927 | | CPDT-Information | Grouped | |
| 3928 | | NIDD-Submission | Grouped | |
| 3929 | | Serving-Node-Identity | DiameterIdentity | |
| 3930 | | CP-CIoT-EPS-Optimisation-Indicator | Enumerated | |
| 3931 | | SGi-PtP-Tunnelling-Method | Enumerated | |
| 3932 | | UNI-PDU-CP-Only-Flag | Enumerated | |
| 3933 | | APN-Rate-Control | Grouped | |
| 3934 | | APN-Rate-Control-Downlink | Grouped | |
| 3935 | | APN-Rate-Control-Uplink | Grouped | |
| 3936 | | Additional-Exception-Reports | Enumerated | |
| 3937 | | Rate-Control-Max-Message-Size | Unsigned32 | |
| 3938 | | Rate-Control-Max-Rate | Unsigned32 | |
| 3939 | | Rate-Control-Time-Unit | Unsigned32 | |
| 3940 | | SCS-AS-Address | Grouped | |
| 3941 | | SCS-Address | Address | |
| 3942 | | SCS-Realm | DiameterIdentity | |
| Note: The AVP codes from 3943 to 3999 are reserved for TS 32.299. | | | | | |
| 4000 | | Aggregated-Congestion-Info | Grouped | | 29.217 [35] |
| 4001 | | Aggregated-RUCI-Report | Grouped | |
| 4002 | | Congestion-Level-Definition | Grouped | |
| 4003 | | Congestion-Level-Range | Unsigned32 | |
| 4004 | | Congestion-Level-Set-Id | Unsigned32 | |
| 4005 | | Congestion-Level-Value | Unsigned32 | |
| 4006 | | Congestion-Location-Id | Grouped | |
| 4007 | | Conditional-Restriction | Unsigned32 | |
| 4008 | | eNodeB-Id | OctetString | |
| 4009 | | IMSI-List | OctetString | |
| 4010 | | RCAF-Id | DiameterIdentity | |
| 4011 | | Reporting-Restriction | Unsigned32 | |
| 4012 | | RUCI-Action | Unsigned32 | |
| 4013 | | Extended-eNodeB-ID | OctetString | |
| Note: The AVP codes from 4014 to 4099 are reserved for TS 29.217. | | | | | |
| 4101 | | Network-Congestion-Area-Report | Grouped | | 29.153 [37] |
| 4102 | | Ns-Request-Type | Unsigned32 | |
| Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153. | | | | | |
| 4201 | | Network-Area-Info-List | OctetString | | 29.154 [38] |
| 4202 | | Reference-Id | OctetString | |
| 4203 | | Transfer-Request-Type | Unsigned32 | |
| 4204 | | Time-Window | Grouped | |
| 4205 | | Transfer-End-Time | Time | |
| 4206 | | Transfer-Start-Time | Time | |
| 4207 | | Transfer-Policy | Grouped | |
| 4208 | | Transfer-Policy-Id | Unsigned32 | |
| 4209 | | Number-Of-UEs | Unsigned32 | |
| 4210 | | Access-Network-Reports | Grouped | |
| 4211 | | Event-Configuration | Grouped | |
| 4212 | | Event-Configuration-State | Unsigned32 | |
| 4213 | | Event-Configuration-Status | Grouped | |
| 4214 | | Event-Reporting-Results | Unsigned32 | |
| 4215 | | Event-Reports | Grouped | |
| 4216 | | Extended-SCEF-Reference-ID | Unsigned64 | |
| Note: The AVP codes from 4217 to 4299 are reserved for TS 29.154. | | | | | |
| 4300 | | Communication-Failure-Information | Grouped | | 29.128 [36] |
| 4301 | | Cause-Type | Unsigned32 | |
| 4302 | | S1AP-Cause | Unsigned32 | |
| 4303 | | RANAP-Cause | Unsigned32 | |
| 4304 | | GMM-Cause | Unsigned32 | |
| 4305 | | SM-Cause | Unsigned32 | |
| 4306 | | Number-of-UE-Per-Location-Configuration | Grouped | |
| 4307 | | Number-of-UE-Per-Location-Report | Grouped | |
| 4308 | | UE-Count | Unsigned32 | |
| 4309 | | BSSGP-Cause | Unsigned32 | |
| 4310 | | Serving-PLMN-Rate-Control | Grouped | |
| 4311 | | Uplink-Rate-Limit | Unsigned32 | |
| 4312 | | Downlink-Rate-Limit | Unsigned32 | |
| 4313 | | Extended-PCO | OctetString | |
| 4314 | | Connection-Action | Unsigned32 | |
| 4315 | | Non-IP-Data | OctetString | |
| 4316 | | SCEF-Wait-Time | Time | |
| 4317 | | CMR-Flags | Unsigned32 | |
| 4318 | | RRC-Cause-Counter | Grouped | |
| 4319 | | Counter-Value | Unsigned32 | |
| 4320 | | RRC-Counter-Timestamp | Time | |
| 4321 | | TDA-Flags | Unsigned32 | |
| 4322 | | Idle-Status-Indication | Grouped | |
| 4323 | | Idle-Status-Timestamp | Time | |
| 4324 | | Active-Time | Unsigned32 | |
| 4325 | | Reachability-Cause | Unsigned32 | |
| 4326 | | APN-Rate-Control-Status | Grouped | |
| 4327 | | Uplink-Number-Of-Packets-Allowed | Unsigned32 | |
| 4328 | | Number-Of-Additional-Exception-Reports | Unsigned32 | |
| 4329 | | Downlink-Number-Of-Packets-Allowed | Unsigned32 | |
| 4330 | | APN-Rate-Control-Status-Validity-Time | Unsigned64 | |
| Note: The AVP codes from 4331 to 4399 are reserved for TS 29.128. | | | | | |
| 4400 | | Charging-Per-IP-CAN-Session-Indicator | Enumerated | | 32.299 [5] |
| 4401 | | Access-Network-Info-Change | Enumerated | |
| 4402 | | Discoveree-UE-HPLMN-Identifier | UTF8String | |
| 4403 | | Discoveree-UE-VPLMN-Identifier | UTF8String | |
| 4404 | | Discoverer-UE-HPLMN-Identifier | UTF8String | |
| 4405 | | Discoverer-UE-VPLMN-Identifier | UTF8String | |
| 4406 | | 3GPP-PS-Data-Off-Status | Enumerated | |
| 4407 | | Unused-Quota-Timer | Unsigned32 | |
| 4408 | | Announcing-PLMN-ID | UTF8String | |
| 4409 | | ProSe-UE-to-Network-Relay-UE-ID | OctetString | |
| 4410 | | ProSe-Target-Layer-2-ID | OctetString | |
| 4411 | | Relay-IP-address | Address | |
| 4412 | | Target-IP-Address | Address | |
| 4413 | | FE-Identifier-List | UTF8String | |
| Note: The AVP codes from 4414 to 4499 are reserved for TS 32.299 | | | | | |
| 4500 | | MCPTT-ID | UTF8String | | 29.283 [39] |
| 4501 | | Data-Identification | Grouped | |
| 4502 | | Data-Identification-Prefix | Unsigned32 | |
| 4503 | | Data-Identification-Flags | Unsigned64 | |
| 4504 | | DPR-Flags | Unsigned32 | |
| 4505 | | DPA-Flags | Unsigned32 | |
| 4506 | | DUR-Flags | Unsigned32 | |
| 4507 | | DUA-Flags | Unsigned32 | |
| 4508 | | NDR-Flags | Unsigned32 | |
| 4509 | | NDA-Flags | Unsigned32 | |
| 4510 | | User-Data-Id | Unsigned32 | |
| 4511 | | MC-Service-User-Profile-Data | Grouped | |
| 4512 | | Sequence-Number | Unsigned32 | |
| 4513 | | MCVideo-ID | UTF8String | |
| 4514 | | MC-Data-ID | UTF8String | |
| Note: The AVP codes from 4515 to 4599 are reserved for TS 29.283. | | | | | |
| 4600 | | V2X-PC5-Allowed-PLMN | Grouped | | 29.388 [40] |
| 4601 | | V2X-Update-Flags | Unsigned32 | |
| 4602 | | V2X-Notify-Flags | Unsigned32 | |
| 4603 | | PLMN-Allowed-PC5-RATs | Grouped | |
| 4604 | | PC5-RAT-Type | Enumerated | |
| Note: The AVP codes from 4605 to 4799 are reserved for TS 29.388. | | | | | |
| 4700 | | V2X-Authorization-Data | Grouped | | 29.389 [41] |
| 4701 | | V2X-Permission-in-VPLMN | Unsigned32 | |
| 4702 | | V2X-Application-Server | Grouped | |
| Note: The AVP codes from 4703 to 4799 are reserved for TS and TS 29.389. | | | | | |
|  | |  |  | | 29.561 [42] |
| Note: The AVP codes from 4800 to 4999 are reserved for TS and TS 29.561. | | | | | |

# 8 Experimental result codes

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

## 8.1 3GPP specific result codes

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

- 1xxx (Informational)

- 2xxx (Success)

- 4xxx (Transient Failures)

- 5xxx (Permanent Failures)

### 8.1.1 Informational

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

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

### 8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

|  |  |  |
| --- | --- | --- |
| Experimental Result Code | Result text | Specified in the TS |
| 2001 | DIAMETER\_FIRST\_REGISTRATION | 29.229 [2] |
| 2002 | DIAMETER\_SUBSEQUENT\_REGISTRATION |
| 2003 | DIAMETER\_UNREGISTERED\_SERVICE |
| 2004 | DIAMETER\_SUCCESS\_SERVER\_NAME\_NOT\_STORED |
| 2005 | *Deprecated value* |
| Note: The Experimental Result Codes from 2006 to 2020 are reserved for the TS 29.229. | | |
| 2021 | DIAMETER\_PDP\_CONTEXT\_DELETION\_INDICATION | 29.061 [13] |
| Note: The Experimental Result Codes from 2022 to 2040 are reserved for the TS 29.061 | | |
|  |  | 29.109 [7] |
| Note: The Experimental Result Codes from 2401 to 2420 are reserved for the TS 29.109. | | |
| 2421 | DIAMETER\_QOS\_FLOW\_DELETION\_INDICATION | 29.561 [42] |
| Note: The Experimental Result Codes from 2422 to 2440 are reserved for the TS 29.561. | | |

### 8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Experimental Result Code | | | Result text | | | Specified in the TS | | |
| 4100 | | | DIAMETER\_USER\_DATA\_NOT\_AVAILABLE | | | 29.329 [4] | | |
| 4101 | | | DIAMETER\_PRIOR\_UPDATE\_IN\_PROGRESS | | |  | | |
| Note: The Experimental Result Codes from 4102 to 4120 are reserved for the TS 29.329. | | | | | | | | |
| 4121 | | | DIAMETER\_ERROR\_OUT\_OF\_RESOURCES | | | 29.061 [13] | | |
| Note: The Experimental Result Codes from 4122 to 4140 are reserved for the TS 29.061. | | | | | | | | |
| 4141 | | | DIAMETER\_PCC\_BEARER\_EVENT | | | 29.212 [19] | | |
| 4142 | | | DIAMETER\_BEARER\_EVENT | | |
| 4143 | | | DIAMETER\_AN\_GW\_FAILED | | |
| 4144 | | | DIAMETER\_PENDING\_TRANSACTION | | |
| 4145 | | | DIAMETER\_UE\_STATUS\_SUSPEND | | |
| Note: The Experimental Result Codes from 4146 to 4160 are reserved for the TS 29.212 | | | | | | | | |
|  | | |  | | | 32.299 [5] | | |
| Note: The Experimental Result Codes from 4161 to 4180 are reserved for the TS 32.299. | | | | | | | | |
| 4181 | | | DIAMETER\_AUTHENTICATION\_DATA\_UNAVAILABLE | | | 29.272 [21] | | |
| 4182 | | | DIAMETER\_ERROR\_CAMEL\_SUBSCRIPTION\_PRESENT | | |
| Note: The Experimental Result Codes from 4182 to 4200 are reserved for the TS 29.272. | | | | | | | | |
| 4201 | | | DIAMETER\_ERROR\_ABSENT\_USER | | | 29.173 [25] | | |
| Note: The Experimental Result Codes from 4202 to 4220 are reserved for the TS 29.173. | | | | | | | | |
| 4221 | | | DIAMETER\_ERROR\_UNREACHABLE\_USER | | | 29.172 [24] | | |
| 4222 | | | DIAMETER\_ERROR\_SUSPENDED\_USER | | |
| 4223 | | | DIAMETER\_ERROR\_DETACHED\_USER | | |
| 4224 | | | DIAMETER\_ERROR\_POSITIONING\_DENIED | | |
| 4225 | | | DIAMETER\_ERROR\_POSITIONING\_FAILED | | |
| 4226 | | | DIAMETER\_ERROR\_UNKNOWN\_UNREACHABLE LCS\_CLIENT | | |
| Note: The Experimental Result Codes from 4227 to 4240 are reserved for the TS 29.172. | | | | | | | | |
| 4241 | | | DIAMETER\_ERROR\_NO\_AVAILABLE\_POLICY\_COUNTERS | | | 29.219 [26] | | |
| Note: The Experimental Result Codes from 4242 to 4260 are reserved for the TS 29.219. | | | | | | | | |
| 4261 | | | REQUESTED\_SERVICE\_TEMPORARILY\_NOT\_AUTHORIZED | | | 29.214 [18] | | |
| Note: The Experimental Result Codes from 4262 to 4280 are reserved for the TS 29.214. | | | | | | | | |

### 8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Experimental Result Code | Result text | | | | | Specified in the TS |
| 5001 | DIAMETER\_ERROR\_USER\_UNKNOWN | | | | | 29.229 [2] |
| 5002 | DIAMETER\_ERROR\_IDENTITIES\_DONT\_MATCH | | | | |
| 5003 | DIAMETER\_ERROR\_IDENTITY\_NOT\_REGISTERED | | | | |
| 5004 | DIAMETER\_ERROR\_ROAMING\_NOT\_ALLOWED | | | | |
| 5005 | DIAMETER\_ERROR\_IDENTITY\_ALREADY\_REGISTERED | | | | |
| 5006 | DIAMETER\_ERROR\_AUTH\_SCHEME\_NOT\_SUPPORTED | | | | |
| 5007 | DIAMETER\_ERROR\_IN\_ASSIGNMENT\_TYPE | | | | |
| 5008 | DIAMETER\_ERROR\_TOO\_MUCH\_DATA | | | | |
| 5009 | DIAMETER\_ERROR\_NOT\_SUPPORTED\_USER\_DATA | | | | |
| 5010 | unassigned | | | | |
| 5011 | DIAMETER\_ERROR\_FEATURE\_UNSUPPORTED | | | | |
| 5012 | DIAMETER\_ERROR\_SERVING\_NODE\_FEATURE\_UNSUPPORTED | | | | |
| Note: The Experimental Result Codes from 5013 to 5020 are reserved for the TS 29.229. | | | | | | |
|  |  | | | | | 32.299 [5] |
| Note: The Experimental Result Codes from 5021 to 5040 are reserved for the TS 32.299. | | | | | | |
| 5041 | DIAMETER\_ERROR\_USER\_NO\_WLAN\_SUBSCRIPTION | | | | | 29.234 [6] |
| 5042 | DIAMETER\_ERROR\_W-APN\_UNUSED\_BY\_USER | | | | |
| 5043 | DIAMETER\_ERROR\_NO\_ACCESS\_INDEPENDENT\_SUBSCRIPTION | | | | |
| 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 | | | | | 29.209 [8],  29.211 [17] ,  29.214 [18] |
| 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 | | | | | 29.329 [4] |
| 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 | | | | |
| Note: The Experimental Result Codes from 5109 to 5119 are reserved for the TS 29.329. | | | | | | |
| 5120 | | DIAMETER\_ERROR\_START\_INDICATION | | | | 29.061 [13] | |
| 5121 | | DIAMETER\_ERROR\_STOP\_INDICATION | | | |
| 5122 | | DIAMETER\_ERROR\_UNKNOWN\_MBMS\_BEARER\_SERVICE | | | |
| 5123 | | DIAMETER\_ERROR\_SERVICE\_AREA | | | |
| Note: The Experimental Result Codes from 5124 to 5139 are reserved for the TS 29.061. | | | | | | |
| 5140 | DIAMETER\_ERROR\_INITIAL\_PARAMETERS | | | | | 29.212 [19] |
| 5141 | DIAMETER\_ERROR\_TRIGGER\_EVENT | | | | |
| 5142 | DIAMETER\_PCC\_RULE\_EVENT | | | | |
| 5143 | DIAMETER\_ERROR\_BEARER\_NOT\_AUTHORIZED | | | | |
| 5144 | DIAMETER\_ERROR\_TRAFFIC\_MAPPING\_INFO\_REJECTED | | | | |
| 5145 | DIAMETER\_QOS\_RULE\_EVENT | | | | |
| 5146 | reserved | | | | |
| 5147 | DIAMETER\_ERROR\_CONFLICTING\_REQUEST | | | | |
| 5148 | DIAMETER\_ADC\_RULE\_EVENT | | | | |
| 5149 | DIAMETER\_ERROR\_NBIFOM\_NOT\_AUTHORIZED | | | | |
| Note: The Experimental Result Codes from 5150 to 5159 are reserved for the TS 29.212. | | | | | | |
| 5401 | DIAMETER\_ERROR\_IMPI\_UNKNOWN | | | | | 29.109 [7 |
| 5402 | DIAMETER\_ERROR\_NOT\_AUTHORIZED | | | | |
| 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 | | | | | 29.272 [21] |
| 5421 | DIAMETER\_ERROR\_RAT\_NOT\_ALLOWED | | | | |
| 5422 | DIAMETER\_ERROR\_EQUIPMENT\_UNKNOWN | | | | |
| 5423 | DIAMETER\_ERROR\_UNKNOWN\_SERVING\_NODE | | | | |  |
| Note: The Experimental Result Codes from 5424 to 5449 are reserved for the TS 29.272. | | | | | | |
| 5450 | DIAMETER\_ERROR\_USER\_NO\_NON\_3GPP\_SUBSCRIPTION | | | | | 29.273 [20] |
| 5451 | DIAMETER\_ERROR\_USER\_NO\_APN\_SUBSCRIPTION | | | | |
| 5452 | DIAMETER\_ERROR\_RAT\_TYPE\_NOT\_ALLOWED | | | | |
| 5453 | DIAMETER\_ERROR\_LATE\_OVERLAPPING\_REQUEST | | | | |
| 5454 | DIAMETER\_ERROR\_TIMED\_OUT\_REQUEST | | | | |
| Note: The Experimental Result Codes from 5455 to 5469 are reserved for the TS 29.273. | | | | | | |
| 5470 | | DIAMETER\_ERROR\_SUBSESSION | | | | 29.215 [22] | |
| 5471 | | DIAMETER\_ERROR\_ONGOING\_SESSION\_ESTABLISHMENT | | | |
| Note: The Experimental Result Codes from 5472 to 5489 are reserved for the TS 29.215. | | | | | | | |
| 5490 | | DIAMETER\_ERROR\_UNAUTHORIZED\_REQUESTING\_NETWORK | | | | 29.173 [25] | |
| Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173. | | | | | | | |
| 5510 | | DIAMETER\_ERROR\_UNAUTHORIZED\_REQUESTING\_ENTITY | | | | 29.336 [28] | |
| 5511 | | DIAMETER\_ERROR\_UNAUTHORIZED\_SERVICE | | | |
| 5512 | | DIAMETER\_ERROR\_REQUESTED\_RANGE\_IS\_NOT ALLOWED | | | |
| 5513 | | DIAMETER\_ERROR\_CONFIGURATION\_EVENT\_STORAGE\_NOT\_SUCCESSFUL | | | |
| 5514 | | DIAMETER\_ERROR\_CONFIGURATION\_EVENT\_NON\_EXISTANT | | | |
| 5515 | | DIAMETER\_ERROR\_SCEF\_REFERENCE\_ID\_UNKNOWN | | | |
| 5516 | | DIAMETER\_ERROR\_UNAUTHORIZED\_MTC\_PROVIDER | | | |
| Note: The Experimental Result Codes from 5517 to 5529 are reserved for the TS 29.336. | | | | | | | |
| 5530 | | DIAMETER\_ERROR\_INVALID\_SME\_ADDRESS | | | | 29.337 [29] | |
| 5531 | | DIAMETER\_ERROR\_SC\_CONGESTION | | | |
| 5532 | | DIAMETER\_ERROR\_SM\_PROTOCOL | | | |
| 5533 | | DIAMETER\_ERROR\_TRIGGER\_REPLACE\_FAILURE | | | |
| 5534 | | DIAMETER\_ERROR\_TRIGGER\_RECALL\_FAILURE | | | |
| 5535 | | DIAMETER\_ERROR\_ORIGINAL\_MESSAGE\_NOT\_PENDING | | | |
| Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.337. | | | | | | | |
| 5550 | | DIAMETER\_ERROR\_ABSENT\_USER | | | | 29.338 [30] | |
| 5551 | | DIAMETER\_ERROR\_USER\_BUSY\_FOR\_MT\_SMS | | | |
| 5552 | | DIAMETER\_ERROR\_FACILITY\_NOT\_SUPPORTED | | | |
| 5553 | | DIAMETER\_ERROR\_ILLEGAL\_USER | | | |
| 5554 | | DIAMETER\_ERROR\_ILLEGAL\_EQUIPMENT | | | |
| 5555 | | DIAMETER\_ERROR\_SM\_DELIVERY\_FAILURE | | | |
| 5556 | | DIAMETER\_ERROR\_SERVICE\_NOT\_SUBSCRIBED | | | |
| 5557 | | DIAMETER\_ERROR\_SERVICE\_BARRED | | | |
| 5558 | | DIAMETER\_ERROR\_MWD\_LIST\_FULL | | | |
| Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. | | | | | | | |
| 5570 | | DIAMETER\_ERROR\_UNKNOWN\_POLICY\_COUNTERS | | | | 29.219 [26] | |
| Note: The Experimental Result Codes from 5571 to 5589 are reserved for the TS 29.219. | | | | | | | |
| 5590 | | DIAMETER\_ERROR\_ORIGIN\_ALUID\_UNKNOWN | | | | 29.343 [32] | |
| 5591 | | DIAMETER\_ERROR\_TARGET\_ALUID\_UNKNOWN | | | |
| 5592 | | DIAMETER\_ERROR\_PFID\_UNKNOWN | | | |
| 5593 | | DIAMETER\_ERROR\_APP\_REGISTER\_REJECT | | | |
| 5594 | | DIAMETER\_ERROR\_PROSE\_MAP\_REQUEST\_DISALLOWED | | | |
| 5595 | | DIAMETER\_ERROR\_MAP\_REQUEST\_REJECT | | | |
| 5596 | | DIAMETER\_ERROR\_REQUESTING\_RPAUID\_UNKNOWN | | | |
| 5597 | | DIAMETER\_ERROR\_UNKNOWN\_OR\_INVALID\_TARGET\_SET | | | |
| 5598 | | DIAMETER\_ERROR\_MISSING\_APPLICATION\_DATA | | | |
| 5599 | | DIAMETER\_ERROR\_AUTHORIZATION\_REJECT | | | |
| 5600 | | DIAMETER\_ERROR\_DISCOVERY\_NOT\_PERMITTED | | | |
| 5601 | | DIAMETER\_ERROR\_TARGET\_RPAUID\_UNKNOWN | | | |
| 5602 | | DIAMETER\_ERROR\_INVALID\_APPLICATION\_DATA | | | |
| Note: The Experimental Result Codes from 5603 to 5609 are reserved for the TS 29.343. | | | | | | | |
| 5610 | | DIAMETER\_ERROR\_UNKNOWN\_PROSE\_SUBSCRIPTION | | | | 29.344 [33] | |
| 5611 | | 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\_FILTER | | | | 29.345 [34] | |
| 5631 | | DIAMETER\_ERROR\_ANNOUNCING\_UNAUTHORIZED\_IN\_PLMN | | | |
| 5632 | | DIAMETER\_ERROR\_INVALID\_APPLICATION\_CODE | | | |
| 5633 | | DIAMETER\_ERROR\_PROXIMITY\_UNAUTHORIZED | | | |
| 5634 | | DIAMETER\_ERROR\_PROXIMITY\_REJECTED | | | |
| 5635 | | DIAMETER\_ERROR\_NO\_PROXIMITY\_REQUEST | | | |
| 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\_SERVED | | | | 29.128 [36] | |
| 5651 | | DIAMETER\_ERROR\_INVALID\_EPS\_BEARER | | | |
| 5652 | | DIAMETER\_ERROR\_NIDD\_CONFIGURATION\_NOT\_AVAILABLE | | | |
| 5653 | | DIAMETER\_ERROR\_USER\_TEMPORARILY\_UNREACHABLE | | | |
| Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. | | | | | | | |
| 5670 | | DIAMETER\_ERROR\_UNKNKOWN\_DATA | | | | 29.283 [39] | |
| 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 | | | | 29.388 [40] | |
| 5691 | | DIAMETER\_ERROR\_V2X\_NOT\_ALLOWED | | | |
| Note: The Experimental Result Codes from 5692 to 5709 are reserved for the TS 29.388. | | | | | | | |

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

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

# A.1 Application identifiers

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

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

# A.2 Command codes

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

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

# A.3 AVP codes

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

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

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

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

# A.4 Result codes

If a working group detects a Diameter application needs new 3GPP specific result codes, it should contact the 3GPP TSG-CN WG 4 via an LS. The LS shall contain the name of the Diameter application and a reference to the corresponding 3GPP TS. The 3GPP TSG-CN WG 4 will allocate a range of 20 result codes from each required result code group for the application. The ranges will be informed to the corresponding working group and the tables in the chapter 8 of this specification will be updated to show the reserved ranges. The working group can use the allocated ranges as a working assumption when defining the actual result codes.

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

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

Re-using of the existing result codes is recommended.

Annex B (informative):  
Change history

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Date** | **TSG #** | **TSG Doc.** | **CR** | **Rev** | **Cat** | **Subject/Comment** | **New** |
| 2004-06 | CN#24 | NP-040292 |  |  |  | Version 2.0.0 presented for information and approval | 6.0.0 |
| 2004-09 | CN#25 | NP-040401 | 001 |  |  | Correction of Charging application reference | 6.1.0 |
| 2004-09 | CN#25 | NP-040401 | 002 |  |  | Correction of the Application-Id code | 6.1.0 |
| 2004-09 | CN#25 | NP-040401 | 003 |  |  | Removal of User Data Request Type AVP | 6.1.0 |
| 2004-09 | CN#25 | NP-040412 | 004 | 1 |  | Re-numbering of 3GPP specific AVP codes. | 6.1.0 |
| 2004-12 | CN#26 | NP-040579 | 006 |  |  | Inclusion of missing Cx AVPs | 6.2.0 |
| 2004-12 | CN#26 | NP-040580 | 007 | 1 |  | Reservation of command code 310 | 6.2.0 |
| 2004-12 | CN#26 | NP-040579 | 009 | 1 |  | Addition of Gmb interface | 6.2.0 |
| 2004-12 | CN#26 | NP-040600 | 010 | 2 |  | Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces | 6.2.0 |
| 2004-12 | CN#26 | NP-040579 | 011 |  |  | Gq interface allocations | 6.2.0 |
| 2004-12 | CN#26 | NP-040579 | 012 |  |  | Addition of Gx interface | 6.2.0 |
| 2005-03 | CN#27 | NP-050047 | 040 | 1 |  | WLAN Diameter AVP and result codes | 6.3.0 |
|  |  | NP-050039 | 043 |  |  | Allocations for Gx interface |  |
|  |  | NP-050039 | 045 |  |  | Allocations for Gmb interface |  |
|  |  | NP-050039 | 046 |  |  | Allocations for MMS, MM10 Interface |  |
| 2005-06 | CT#28 | CP-050088 | 0050 |  |  | Gx interface allocation correction | 6.4.0 |
|  |  | CP-050196 | 0051 | 1 |  | Addition of Maximum-Number-Accesses AVP |  |
| 2005-09 | CT#29 | CP-050440 | 0052 | 1 |  | Private identities on the Cx | 6.5.0 |
|  |  | CP-050310 | 0053 |  |  | Addition of Pr reference point to TS 29.230 |  |
|  |  | CP-050310 | 0054 |  |  | Error code cleanup |  |
|  |  | CP-050310 | 0056 |  |  | Addition of Rx ref. point and renaming of Experimental Result Codes |  |
| 2005-09 | CT#29 | CP-050317 | 0055 |  |  | Addition of GUSS timestamp AVP | 7.0.0 |
| 2005-12 | CT#30 | CP-050624 | 0058 |  |  | Addition of GBA-Type AVP | 7.1.0 |
|  |  | CP-050612 | 0063 |  |  | Additional Gmb AVP Allocation |  |
|  |  | CP-050612 | 0065 |  |  | Reservation of AVP codes for 32.299 |  |
|  |  | CP-050625 | 0066 |  |  | Management of Sh subscriptions |  |
| 2006-03 | CT#31 | CP-060073 | 0069 |  |  | Adding data type of some of WLAN-related AVPs | 7.2.0 |
|  |  | CP-060084 | 0071 |  |  | User-Data in the response to Sh-Subs-Notif |  |
|  |  | CP-060084 | 0072 | 1 |  | New error indications for the Sh-Subs-Notif procedure |  |
| 2006-06 | CT#32 | CP-060302 | 0075 |  |  | S-CSCF reselection removal | 7.3.0 |
| 2006-09 | CT#33 | CP-060417 | 0077 | 3 |  | New AVP Code | 7.4.0 |
|  |  | CP-060417 | 0080 |  |  | Errors to be sent in response to Sh-Notif |  |
|  |  | CP-060417 | 0081 |  |  | Definition of specific Diameter codes for DSAI |  |
| 2006-12 | CT#34 | CP-060566 | 0085 | 1 |  | Optimization of handling of Wildcarded PSIs | 7.5.0 |
|  |  | CP-060562 | 0086 |  |  | Addition of Diameter Error Code for Emergency Purposes |  |
|  |  | CP-060555 | 0087 |  |  | Allocation of new AVP codes for Gmb |  |
|  |  | CP-060555 | 0089 |  |  | AVP code allocations for Rf and Ro interfaces |  |
|  |  | CP-060566 | 0091 |  |  | Allocation of Success Result Code Range for Gi Interface |  |
| 2007-03 | CT#35 | CP-070020 | 0093 |  |  | C3 requested addition of new AVP code values to 3GPP TS 29.230 | 7.6.0 |
|  |  | CP-070020 | 0093 |  |  | Allocation of new AVP code for DSAI-Tag AVP |  |
|  |  | CP-070020 | 0093 |  |  | Allocation of Experimental-Result-Code AVP for Gi Interface |  |
| 2007-06 | CT#36 | CP-070318 | 0096 |  |  | Diameter application ID for the Rel-7 Rx interface | 7.7.0 |
|  |  | CP-070312 | 0098 |  |  | Experimental-Result-Codes for Gmb interface |  |
|  |  | CP-070312 | 0100 |  |  | Correction of Diameter AVP code allocation |  |
| 2007-09 | CT#37 | CP-070527 | 0102 |  |  | Application ID for Gx protocol | 7.8.0 |
| 2007-12 | CT#38 | CP-070743 | 0104 |  |  | AVP code reservation for 32.299 in Rel-7 | 7.9.0 |
|  |  |  | 0105 |  |  | Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol |  |
| 2007-12 | CT#38 | CP-070755 | 0101 | 4 |  | AVP assignments to support SIP Digest Authentication | 8.0.0 |
|  |  |  | 0103 |  |  | AVP code reservation for 32.299 in Rel-8 |  |
| 2008-03 | CT#39 | CP-080015 | 0109 |  |  | Correction of reference to TS 29.140 | 8.1.0 |
|  |  | CP-080019 | 0111 |  |  | AVP code reservation for TS 32.299 in Rel-8 |  |
|  |  | CP-080019 | 0107 |  |  | Wildcarded Public User Identities |  |
|  |  | CP-080191 | 0112 | 1 |  | Correction on AVP code allocation reservation for TS 32.299 in Rel-7 |  |
|  |  | CP-080204 | 0113 | 1 |  | Correction on AVP code allocation reservation for TS 32.299 |  |
| 2008-06 | CT#40 | CP-080267 | 0117 | 1 |  | A new Diameter Permanent Failure Code for Gx | 8.2.0 |
| 2008-09 | CT#41 | CP-080456 | 0119 |  |  | Emergency Public User Identity Removal | 8.3.0 |
| 2008-09 | CT#41 | CP-080460 | 0121 | 1 |  | Support of "Loose-Route" indication from HSS |  |
| 2008-09 | CT#41 | CP-080460 | 0122 | 1 |  | STaMIP Application Id |  |
| 2008-09 | CT#41 | CP-080463 | 0123 |  |  | Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment) |  |
| 2008-09 | CT#41 | CP-080463 | 0124 |  |  | New AVP Code Assignment for Forking Service Restoration | 8.3.0 |
| 2008-12 | CT#42 | CP-080691 | 0127 | 2 |  | Diameter Protocol Codes Assignments for S6a/S6d/S13 | 8.4.0 |
| 2008-12 | CT#42 | CP-080691 | 0128 | 1 |  | Diameter code assignments for 3GPP TS 29.273 | 8.4.0 |
| 2009-03 | CT#43 | CP-090044 | 0130 | 1 |  | Update for ReadyForSM | 8.5.0 |
| 2009-03 | CT#43 | CP-090044 | 0131 | 1 |  | Handling LCS Subscription Data | 8.5.0 |
| 2009-03 | CT#43 | CP-090026 | 0132 |  |  | Update for Restoration | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | 0133 |  |  | AppIds for Gxx and S9 | 8.5.0 |
| 2009-03 | CT#43 | CP-090033 | 0134 | 2 |  | AppId and command code for Zpn | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | 0137 | 1 |  | AVP codes for S9 protocol | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | 0138 | 1 |  | Diameter AVP Code allocation | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | 0140 | 1 |  | Location of Permanent Failure result code range for the S9 application | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | 0141 |  |  | AVPs for TS 29.273 | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | 0142 | 1 |  | Error code allocation for authentication failure | 8.5.0 |
| 2009-06 | CT#44 | CP-090299 | 0129 | 4 |  | Update of the AVP Codes | 8.6.0 |
|  |  | CP-090299 | 0143 |  |  | 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 |  |
|  |  | CP-090299 | 0147 |  |  | S6b Application ID |  |
| 2009-09 | CT#45 | CP-090530 | 0149 |  |  | Allocation of Experimental-Result-Codes for S9 protocol | 8.7.0 |
|  |  | CP-090530 | 0152 |  |  | AVP code allocation for TS 29.212 |  |
|  |  | CP-090531 | 0150 |  |  | Update of the AVP type for the User-Id |  |
|  |  | CP-090531 | 0153 |  |  | Trace Depth per session |  |
| 2009-09 | CT#45 | CP-090557 | 0148 |  |  | AVP code range for charging | 9.0.0 |
| 2009-12 | CT#46 | CP-090800 | 0154 | 1 |  | ICS-Flag | 9.1.0 |
|  |  | CP-091032 | 0156 |  |  | From GMLC-Address to GMLC-Number |  |
|  |  |  | 0160 |  |  | Session-Priority AVP |  |
|  |  |  | 0163 | 2 |  | Introduction of SLh application related AVPs and Experimental Result codes |  |
|  |  |  | 0166 |  |  | Missing AVP error codes |  |
|  |  | CP-090797 | 0167 | 1 |  | Introduction of SLg application related AVPs and Application Identifier |  |
| 2010-03 | CT#47 | CP-100031 | 0158 | 1 |  | Wildcarded Public Identity | 9.2.0 |
|  |  | CP-100034 | 0168 | 1 |  | Correction on AVP code allocation reservation for TS 32.299 in Rel-9 |  |
|  |  | CP-100046 | 0169 | 1 |  | AVP code allocation for 29.172 |  |
|  |  | CP-100036 | 0172 |  |  | GPL\_U support in TS 29.109 |  |
|  |  | CP-100046 | 0173 |  |  | Error codes in 29.172 for SLg |  |
|  |  | CP-100048 | 0174 | 1 |  | AVPs in 29.272 for TADS support |  |
|  |  | CP-100040 | 0175 |  |  | Error codes in 29.272 for Unknown MME |  |
|  |  | CP-100236 | 0176 | 4 |  | EPS Subcsriber State and Location Information Request |  |
|  |  | CP-100033 | 0180 |  |  | One time notification AVP allocation |  |
|  |  | CP-100046 | 0181 |  |  | Addition of the LCS-QoS-Class attribute value |  |
|  |  | CP-100175 | 0182 |  |  | Introduction of the LCS-Capabilities-Sets AVP in SLh interface |  |
| 2010-06 | CT#48 | CP-100263 | 0188 | 1 |  | AVP Codes for PCC | 9.3.0 |
|  |  |  | 0183 |  |  | EPS state and location retrieval |  |
|  |  | CP-100287 | 0186 |  |  | SGmb Application ID |  |
|  |  | CP-100277 | 0190 | 1 |  | New APVs in S6a protocol |  |
| 2010-09 | CT#49 | CP-100463 | 0197 | 1 |  | Addition of Diameter codes and identifiers for the SLg and SLh interfaces | 9.4.0 |
|  |  | CP-100464 | 0196 |  |  | AVP Codes Allocation for PCC |  |
| 2010-09 | CT#49 | CP-100465 | 0193 | 1 |  | SIPTO Permission Indicator | 10.0.0 |
|  |  | CP-100466 | 0198 | 2 |  | Location data including only serving node address |  |
|  |  | CP-100466 | 0199 | 1 |  | AVP for Update-Eff feature |  |
| 2010-12 | CT#50 | CP-100699 | 0205 |  |  | Enhanced SRVCC Subscriber Data | 10.1.0 |
|  |  | CP-100687 | 0201 | 1 |  | Allocate codes for AVPs on eMPS |  |
|  |  | CP-100683 | 0200 | 1 |  | Allocate codes for AVPs on LIPA |  |
|  |  | CP-100688 | 0206 | 1 |  | Periodic TAU/RAU timer in HSS subscription |  |
|  |  | CP-100846 | 0203 | 1 |  | S6a Error Diagnostic |  |
| 2011-03 | CT#51 | CP-110051 | 0212 |  |  | PDP-Address correction | 10.2.0 |
|  |  | CP-110054 | 0215 |  |  | Essential correction on the value type of the ELP Application AVPs |  |
|  |  | CP-110087 | 0207 | 2 |  | Minimization of Drive Tests (MDT) |  |
|  |  | CP-110088 | 0209 | 1 |  | Relay Node Indicator AVPs |  |
| 2011-06 | CT#52 | CP-110349 | 0219 | 2 |  | Handling of RTR for Emergency Registration | 10.3.0 |
|  |  | CP-110347 | 0231 | 1 |  | Add AVPs from QSPEC cleanup |  |
|  |  | CP-110359 | 0226 |  |  | MIPv4 security parameters on the STa and S6b interfaces |  |
|  |  | CP-110380 | 0216 |  |  | MDT user consent |  |
|  |  | CP-110370 | 0223 |  |  | AVP Code Allocation for Pre-paging |  |
|  |  | CP-110375 | 0227 | 1 |  | PUR-Flags AVP |  |
| 2011-09 | CT#53 | CP-110559 | 0236 | 1 |  | AVP code alignment with 29.212 | 10.4.0 |
|  |  | CP-110555 | 0239 | 1 |  | AVP code alignment with 32.299 |  |
|  |  | CP-110554 | 0244 | 1 |  | AVP code alignment with 29.214 |  |
|  |  | CP-110552 | 0249 |  |  | Experimental Result Code Alignment with 29.061 |  |
|  |  | CP-110555 | 0252 |  |  | Failure code and AVP code alignment with 29.212 |  |
|  |  | CP-110722 | 0257 | 2 |  | Priviledged sender |  |
| 2011-09 | CT#53 | CP-110584 | 0234 | 1 |  | Add vSRVCC updates to the Diameter AVP code table | 11.0.0 |
|  |  | CP-110579 | 0240 |  |  | AVP code alignment with 32.299 |  |
|  |  | CP-110555 | 0253 |  |  | AVP code reservation for 29.212 |  |
| 2011-12 | CT#54 | CP-110812 | 0258 | 1 |  | SWx Restoration AVPs | 11.1.0 |
|  |  | CP-110812 | 0259 |  |  | Sy and Sd Application IDs |  |
|  |  | CP-110775 | 0262 |  |  | New AVP codes for MBMS IP unicast encapsulation |  |
|  |  | CP-110775 | 0265 |  |  | New AVP codes for MBMS IP multicast encapsulation |  |
|  |  | CP-110786 | 0271 | 1 |  | MME-Realm AVP code allocation |  |
|  |  | CP-110811 | 0277 |  |  | Equivalent PLMN CSG Subscription Request |  |
|  |  | CP-110781 | 0281 | 1 |  | Restoration of Wildcarded-IMPU AVP |  |
| 2012-03 | CT#55 | CP-120025 | 0286 | 1 |  | Codes Allocation for AVPs on Initial Attach | 11.2.0 |
|  |  | CP-120038 | 0288 |  |  | New AVP codes for Absolute Time of MBMS Data Transfer over SGmb |  |
|  |  | CP-120038 | 0291 | 1 |  | Allocating Diameter AVP codes for TS 29.219 and TS 29.212 |  |
| 2012-06 | CT#56 | CP-120240 | 0287 | 5 |  | Codes Allocation for AVPs on NPLI | 11.3.0 |
|  |  | CP-120238 | 0294 | 1 |  | Adding new Diameter AVPs to Diameter table to support Trusted WLAN Access feature |  |
|  |  | CP-120225 | 0296 | 1 |  | Trust Relationship Indication |  |
|  |  | CP-120251 | 0297 | 1 |  | Corrections to reference titles |  |
|  |  | CP-120251 | 0298 | 1 |  | Diameter Code Allocation for TS 29.219 |  |
|  |  | CP-120247 | 0300 | - |  | Network Name AVP codes |  |
|  |  | CP-120219 | 0304 | - |  | Duplicated AVP names |  |
| 2012-09 | CT#57 | CP-120481 | 0289 | 3 |  | PS additional number allocation | 11.4.0 |
|  |  | CP-120473 | 0293 | 4 |  | SMS in MME/SGSN |  |
|  |  | CP-120461 | 0299 | 2 |  | AAA Failure Recovery AVP codes |  |
|  |  | CP-120474 | 0305 | - |  | Transport Access Type AVP for BBAI |  |
|  |  | CP-120480 | 0307 | 1 |  | Local Time Zone |  |
|  |  | CP-120472 | 0308 | - |  | Allocating Application Identifier and command code for Tsp interface |  |
|  |  | CP-120472 | 0309 | - |  | Application Identifier, Command Codes and AVP range for S6m interface |  |
|  |  | CP-120667 | 0312 | 1 |  | GMLC-Name |  |
|  |  |  | 0313 | 1 |  | Reference list correction to align with the corrected TS 29.212 title |  |
| 2012-12 | CT#58 | CP-120731 | 0315 | 2 |  | T4 device triggering via IMS | 11.5.0 |
|  |  | CP-120731 | 0318 | 1 |  | Codes and Identifier Allocation for T4 Specification |  |
|  |  | CP-120731 | 0324 | - |  | AVP Code Allocation for 29.336 |  |
|  |  | CP-120731 | 0329 | - |  | Diameter AVP code value allocation in TS 29.368 |  |
|  |  | CP-120732 | 0319 | 2 |  | Application Identifier, Command Codes and AVP codes for SGd, S6c |  |
|  |  | CP-120716 | 0324 | 1 |  | AVP name modification in TS 32.299 |  |
|  |  | CP-120742 | 0325 | - |  | UE Time Zone AVP |  |
|  |  | CP-120741 | 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 | 333 | - |  | EPS LocationInformation Support |  |
| 2013-03 | CT#59 | CP-130026 | 0334 | 1 |  | Diameter error code for TS 29.219 | 11.6.0 |
|  |  | CP-130026 | 0336 | - |  | MDT parameters |  |
| 2013-03 | CT#59 | CP-130156 | 0337 | 1 |  | New AVPs for Lgd interface | 12.0.0 |
|  |  | CP-130030 | 0341 | - |  | Validity Time of Short Message |  |
| 2013-06 | CT#60 | CP-130288 | 0362 | 1 |  | Add new DER-S6b-flag AVP | 12.1.0 |
|  |  | CP-130298 | 0360 | - |  | Failure Result Codes Allocation for TS 29.219 |  |
|  |  | CP-130292 | 0358 | - |  | Diameter AVP codes for new TS 32.299 AVPs |  |
|  |  | CP-130279 | 0354 | 1 |  | Definition of SS Status for Call Barring |  |
|  |  | CP-130380 | 0363 | - |  | New SGs-MME-Identity AVP |  |
|  |  | CP-130291 | 0348 | 2 |  | New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface |  |
|  |  | CP-130297 | 0347 | 1 |  | Application Port Identifier |  |
|  |  | CP-130374 | 0345 | 1 |  | MTRR on Sh |  |
|  |  | CP-130295 | 0344 | - |  | Restoration Priority during SGW and PGW restoration procedures |  |
|  |  | CP-130378 | 0349 | 1 |  | SIPTO permission for Local Network enhancements |  |
| 2013-09 | CT#61 | CP-130454 | 0364 | 2 |  | New MBMS flag for eMBMS restoration | 12.2.0 |
|  |  | CP-130461 | 0366 | - |  | AVP code reservation for TS 32.299 Rel-12 |  |
|  |  | CP-130460 | 0368 | - |  | Allocation of Diameter codes and identifiers for 29.212 and 29.215 |  |
| 2013-09 |  |  |  | - |  | Vendor-specific command code for Trigger-Establishment-Request/Answer corrected | 12.2.1 |
| 2013-12 | CT#62 | CP-130624 | 0369 | - |  | New AVP for optimized LCS procedure for combined MME/SGSN | 12.3.0 |
|  |  | CP-130631 | 0370 | 1 |  | Adding E-SMLC provided Cell info and Cell Portion |  |
|  |  | CP-130800 | 0371 | - |  | New AVPs for SMS for IMS UE without MSISDN in TS 29.338 |  |
|  |  | CP-130600 | 0376 | 1 |  | Allocation of Diameter codes for 32.299 |  |
|  |  | CP-130605 | 0378 | - |  | Allocation of Diameter codes for 29.212 |  |
|  |  | CP-130639 | 0380 | - |  | SGSN CAMEL Subscription Indication |  |
| 2014-03 | CT#63 | CP-140180 | 0381 | 2 |  | Protocol enhancements for the support of device replace procedure | 12.4.0 |
|  |  | CP-140035 | 0384 | - |  | New AVP for the support of combined MME/SGSN |  |
|  |  | CP-140023 | 0383 | 1 |  | Definition of WLAN-related AVPs |  |
| 2014-06 | CT#64 | CP-140211 | 0385 | 1 |  | Protocol enhancements to indicate support of device recall and replace by SMS-SC | 12.5.0 |
|  |  | CP-140251 | 0402 | 1 |  | AVP allocation for Error handling, MTC error diagnostic |  |
|  |  | CP-140257 | 0391 | 1 |  | SS-Status AVP Definition |  |
|  |  | CP-140252 | 0392 | - |  | Definition of AVPs for Network Location in TWLAN |  |
|  |  | CP-140236 | 0399 | - |  | TWAN-BSSID AVP re-naming |  |
|  |  | CP-140247 | 0397 | - |  | New AVPs for Trusted WLAN access |  |
|  |  | CP-140231 | 0390 | 1 |  | Adding Codes for 29.214 |  |
| 2014-09 | CT#65 | CP-140515 | 0403 | 1 |  | T-GRUU restoration | 12.6.0 |
|  |  | CP-140517 | 0404 | 1 |  | MB2-C codes |  |
|  |  | CP-140505 | 0405 | 1 |  | New AVPs for Trusted WLAN access |  |
|  |  | CP-140506 | 0406 | 1 |  | P-CSCF Restoration indication |  |
|  |  | CP-140516 | 0407 | 2 |  | Closing TS 29.234 and reused AVP in TS 29.273 |  |
|  |  | 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 | 12.7.0 |
|  |  |  | 0430 | - |  | New Diagnostic-Info AVP for MBMS restoration |  |
|  |  |  | 0410 | 1 |  | WLCP key for WLCP signalling protection |  |
|  |  |  | 0411 | - |  | Reset-ID |  |
|  |  |  | 0416 | 1 |  | Code definitions for 32.299 |  |
|  |  |  | 0428 | - |  | Removal of I-WLAN AVPs |  |
|  |  |  | 0429 | 1 |  | Reference correction |  |
|  |  |  | 0433 | - |  | Code allocation for 29.212 |  |
|  |  |  | 0418 | - |  | MDT PLMN List |  |
|  |  |  | 0422 | 1 |  | Codes Allocation for PC2 Protocol |  |
|  |  |  | 0423 | 4 |  | Codes Allocation for PC4a Protoco |  |
|  |  |  | 0431 | 3 |  | Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 |  |
|  |  |  | 0434 | 1 |  | Command Code and Error Code for ProSe Initial Location Information Retrieval |  |
|  |  |  | 0425 | - |  | Corrections of the type of some AVPs |  |
|  |  |  | 0426 | 1 |  | OFR-Flags AVP code |  |
|  |  |  | 0427 | 1 |  | P-CSCF Restoration mechanism new error |  |
| 2015-03 | CT#67 | CP-150015 | 0447 | - |  | Renaming of Location-Type AVP | 12.8.0 |
|  |  |  | 0437 | 1 |  | Location reporting in emergency 1xSRVCC |  |
|  |  |  | 0435 | - |  | AVP codes for GCSE MB2-C |  |
|  |  |  | 0442 | 1 |  | New AVPs and range of transient failure result codes in TS 29.214 |  |
|  |  |  | 0438 | 1 |  | Allocation of code for Authorized-Discovery-Range AVP (TS 29.344) |  |
|  |  |  | 0440 | 2 |  | Location Update Trigger |  |
|  |  |  | 0441 | 1 |  | AVP codes allocation for Validity related AVPs for TS 29.345 |  |
|  |  |  | 0443 | - |  | Allocation of codes for the Integrity Checks. Aspect AVPs |  |
| 2015-03 | CT#67 | CP-150039 | 0439 | 1 |  | Diameter Application Identifier for Np protocol | 13.0.0 |
| 2015-06 | CT#68 | CP-150257 | 0450 | 1 |  | AVP code allocation for Match Refresh Timer AVP in TS 29.345 | 13.1.0 |
|  |  | CP-150247 | 0457 | - |  | Wrong CR implementation of CR 0416r1 |  |
|  |  | CP-150249 | 0459 | 1 |  | AVP code allocation for 32.299 |  |
|  |  | CP-150263 | 0452 | 1 |  | AVP codes for Access Restriction Data per PLMN |  |
|  |  | CP-150372 | 0461 | - |  | IP-SM-GW-Realm |  |
| 2015-09 | CT#69 | CP-150454 | 0462 | - |  | Subscription data for extended buffering at the SGW | 13.2.0 |
|  |  | CP-150442 | 0463 | - |  | Overlapping transaction over S6b |  |
|  |  | CP-150453 | 0464 | 2 |  | Addition of IMSI Group Id AVP definition |  |
|  |  | CP-150449 | 0465 | 3 |  | Addition of CP parameter AVP definition |  |
|  |  | CP-150431 | 0470 | 1 |  | AVP codes for TS 29.212 |  |
|  |  | CP-150456 | 0471 | 3 |  | AVP definiton for S6t |  |
| 2015-12 | CT#70 | CP-150761 | 0473 | - |  | Addition of MBMS-Cell-List AVP | 13.3.0 |
|  |  | CP-150778 | 0474 | - |  | S6t Application ID and Command Codes |  |
|  |  | CP-150778 | 0474 | 1 |  | Bitmask to inform the SCEF of the Monitoring capabilities |  |
|  |  | CP-150778 | 0490 | 1 |  | AVP codes for MONTE T6a/b interface |  |
|  |  | CP-150778 | 0491 | 1 |  | Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types |  |
|  |  | CP-150778 | 0494 | 2 |  | Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) |  |
|  |  | CP-150778 | 0501 | 1 |  | Definition of AVP SCEF-ID |  |
|  |  | CP-150778 | 0502 | 2 |  | Service result per Event configuration |  |
|  |  | CP-150770 | 0475 | 1 |  | Emergency PDN connection over untrusted WLAN access |  |
|  |  | CP-150776 | 0476 | - |  | EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving |  |
|  |  | CP-150776 | 0497 | 1 |  | Mobile Terminating SMS handling for extended Idle mode DRX |  |
|  |  | CP-150776 | 0498 | 1 |  | Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option |  |
|  |  | CP-150777 | 0477 | 3 |  | Commands and codes for Np protocol |  |
|  |  | CP-150772 | 0479 | 1 |  | Definition of ProSe-Metadata-Index-Mask |  |
|  |  | CP-150772 | 0489 | - |  | Addition of AVPs and result-codes |  |
|  |  | CP-150772 | 0500 | - |  | Addition of AVP used in match report procedure for eProSe-Ext-CT |  |
|  |  | CP-150754 | 0481 | 1 |  | Allowed WAF and/or WWSF Identities |  |
|  |  | CP-150773 | 0482 | - |  | Add the default access type to 3GPP specific AVP |  |
|  |  | CP-150781 | 0484 | 1 |  | AVP code allocation for "UE Usage Type" |  |
|  |  | CP-150755 | 0486 | - |  | Metadata in Match-Report |  |
|  |  | CP-150755 | 0488 | - |  | New Group AVP for ProSe direct discovery procedures |  |
|  |  | CP-150771 | 0492 | 1 |  | Definition of AVP for AESE-CT |  |
|  |  | CP-150771 | 0496 | 1 |  | Command codes and AVP range for TS 29.154 and TS 29.153 |  |
|  |  | CP-150776 | 0495 | 1 |  | AVP codes for Indoor Positioning support in SLg/Lgd |  |
| 2016-03 | CT#71 | CP-160041 | 0503 | - |  | Application ID for St | 13.4.0 |
|  |  | CP-160041 | 0506 | 1 |  | Correction on TS numbers |  |
|  |  | CP-160041 | 0510 | - |  | AVPs for the Rx Diameter application |  |
|  |  | CP-160041 | 0514 | 2 |  | AVP code reservation for 32.299 |  |
|  |  | CP-160041 | 0518 | 1 |  | Codes for 29.212 |  |
|  |  | CP-160029 | 0505 | 3 |  | New AVP assignment for MONTE |  |
|  |  | CP-160029 | 0509 | - |  | Change of type of Monitoring-Duration AVP to represent an absolute time |  |
|  |  | CP-160035 | 0507 | - |  | Remove the default access AVP |  |
|  |  | CP-160035 | 0508 | - |  | Specific AVP codes for NBIFOM |  |
|  |  | CP-160030 | 0511 | - |  | Alert procedure from MME/SGSN to SMS-GMSC for MT SMS to UE using eDRX |  |
|  |  | CP-160037 | 0512 | - |  | ePDG retrieval of WLAN Location Information |  |
|  |  | CP-160033 | 0513 | 2 |  | Definition of AVP Authorization of NIDD |  |
|  |  | CP-160033 | 0520 | 2 |  | New PDN-Type for Cellular IoT |  |
|  |  | CP-160036 | 0517 | 1 |  | Monitoring update and Reporting of update result |  |
|  |  | CP-160036 | 0519 | 3 |  | Allocation of new Diameter Application ID and commands code for PC2 protocol |  |
| 2016-03 | CT#71 | CP-160018 | 0515 | 1 |  | AVP code reservation for 32.299 | 14.0.0 |
| 2016-06 | CT#72 | CP-160236 | 0526 | 1 |  | Command Codes for 29.212 | 14.1.0 |
| 2016-06 | CT#72 | CP-160236 | 0543 | - |  | AVP code range 3900-3999 | 14.1.0 |
| 2016-06 | CT#72 | CP-160236 | 0557 | 1 |  | New AVPs in TS 29.214 | 14.1.0 |
| 2016-06 | CT#72 | CP-160236 | 0565 | - |  | AVP codes for 29.212 | 14.1.0 |
| 2016-06 | CT#72 | CP-160232 | 0528 | 2 |  | AVP Codes for 29.343 | 14.1.0 |
| 2016-06 | CT#72 | CP-160232 | 0533 | 3 |  | Addition of new AVPs for ProSe direct discovery security and open ProSe direct discovery with application-controlled extension | 14.1.0 |
| 2016-06 | CT#72 | CP-160232 | 0540 | - |  | Reserved Experimental Result Codes for TS 29.343 | 14.1.0 |
| 2016-06 | CT#72 | CP-160232 | 0549 | - |  | Assignment of application ID and command code for PC2 reference point | 14.1.0 |
| 2016-06 | CT#72 | CP-160228 | 0531 | - |  | IANA Command Code Registration | 14.1.0 |
| 2016-06 | CT#72 | CP-160228 | 0541 | 1 |  | CIoT new commands and Diameter error | 14.1.0 |
| 2016-06 | CT#72 | CP-160228 | 0550 | - |  | NIDD authorisation update | 14.1.0 |
| 2016-06 | CT#72 | CP-160228 | 0560 | 3 |  | Serving PLMN Rate Control | 14.1.0 |
| 2016-06 | CT#72 | CP-160228 | 0563 | - |  | New AVP for APN Rate Control | 14.1.0 |
| 2016-06 | CT#72 | CP-160233 | 0537 | 1 |  | Renaming of Validity-Time AVP | 14.1.0 |
| 2016-06 | CT#72 | CP-160233 | 0562 | 1 |  | New AVPs allocated for 29.153 and 29.154 | 14.1.0 |
| 2016-06 | CT#72 | CP-160225 | 0545 | 3 |  | SCEF Realm | 14.1.0 |
| 2016-06 | CT#72 | CP-160225 | 0548 | - |  | Cleanup up on MONTE AVP's | 14.1.0 |
| 2016-06 | CT#72 | CP-160227 | 0546 | - |  | IANA assigned application Id and command code values | 14.1.0 |
| 2016-06 | CT#72 | CP-160227 | 0547 | 2 |  | Allocation of AVP codes and Experimental Result codes for Diameter Data Management application | 14.1.0 |
| 2016-06 | CT#72 | CP-160231 | 0553 | 1 |  | 3GPP specific AVP for NBIFOM | 14.1.0 |
| 2016-06 | CT#72 | CP-160222 | 0555 | 1 |  | Shared Subscription data update | 14.1.0 |
| 2016-09 | CT#73 | CP-160424 | 0570 | 1 |  | Missing AVP codes and Experimental-Result codes for T6a | 14.2.0 |
| 2016-09 | CT#73 | CP-160424 | 0574 | 1 |  | Allocate of AVP Handling of Exception Reports in the Core Network | 14.2.0 |
| 2016-09 | CT#73 | CP-160419 | 0572 | 1 |  | AVP codes for 32.299 | 14.2.0 |
| 2016-09 | CT#73 | CP-160419 | 0576 | 1 |  | AVP code for 29.214 | 14.2.0 |
| 2016-09 | CT#73 | CP-160419 | 0578 | 1 |  | AVP code for 29.212 | 14.2.0 |
| 2016-09 | CT#73 | CP-160436 | 0568 | 1 |  | STa and SWm extensions for IMEI check | 14.2.0 |
| 2016-12 | CT#74 | CP-160650 | 0582 | - |  | AVP code alignment with 29.272 | 14.3.0 |
| 2016-12 | CT#74 | CP-160679 | 0579 | 1 |  | AVPs for Handover of Emergency PDN Connections | 14.3.0 |
| 2016-12 | CT#74 | CP-160678 | 0583 | 1 |  | New Diameter Application Code, AVP and Result Code for V2X | 14.3.0 |
| 2016-12 | CT#74 | CP-160653 | 0585 | 1 |  | Renaming of Emergency-Indication AVP | 14.3.0 |
| 2016-12 | CT#74 | CP-160670 | 0586 | 2 |  | New AVPs for TS 29.214 | 14.3.0 |
| 2016-12 | CT#74 | CP-160660 | 0590 | - |  | S6t-HSS-Cause | 14.3.0 |
| 2016-12 | CT#74 | CP-160669 | 0591 | - |  | AVP codes for 29.468 | 14.3.0 |
| 2017-03 | CT#75 | CP-170039 | 0592 | 1 |  | Enhanced Coverage | 14.4.0 |
| 2017-03 | CT#75 | CP-170039 | 0593 | 1 |  | Inter-RAT PDN-Continuity | 14.4.0 |
| 2017-03 | CT#75 | CP-170039 | 0595 | 1 |  | NIDD Authorization revocation | 14.4.0 |
| 2017-03 | CT#75 | CP-170036 | 0594 | 1 |  | Loss Of Connectivity Reason | 14.4.0 |
| 2017-03 | CT#75 | CP-170036 | 0602 | 1 |  | Subscription parameters for eDRX | 14.4.0 |
| 2017-03 | CT#75 | CP-170036 | 0607 | 1 |  | Support of long and short Macro eNodeB IDs | 14.4.0 |
| 2017-03 | CT#75 | CP-170025 | 0597 | - |  | AVP codes for 32.299 | 14.4.0 |
| 2017-03 | CT#75 | CP-170043 | 0598 | 1 |  | New AVP for UE-PC5-AMBR | 14.4.0 |
| 2017-03 | CT#75 | CP-170043 | 0603 | 1 |  | Correct Diameter Result Code Allocated for V2X | 14.4.0 |
| 2017-03 | CT#75 | CP-170049 | 0601 | 1 |  | AVPs for ERP in 29.273 | 14.4.0 |
| 2017-03 | CT#75 | CP-170052 | 0605 | - |  | Update of the name of MCPTT-User-Profile-Data AVP | 14.4.0 |
| 2017-03 | CT#75 | CP-170045 | 0606 | - |  | Support of MCVideo and MCData Services | 14.4.0 |
| 2017-06 | CT#76 | CP-171029 | 0600 | 4 |  | New AVP for Group Based MONTE Event Configuration via HSS | 14.5.0 |
| 2017-06 | CT#76 | CP-171017 | 0609 | - |  | New AVPs in 29.272 for MBSFN MDT | 14.5.0 |
| 2017-06 | CT#76 | CP-171026 | 0610 | - |  | AVP codes for 29.212 | 14.5.0 |
| 2017-06 | CT#76 | CP-171026 | 0611 | - |  | AVP codes for 29.214 | 14.5.0 |
| 2017-06 | CT#76 | CP-171030 | 0612 | 1 |  | AVP code allocation for 29.172 for Location Services for CioT | 14.5.0 |
| 2017-06 | CT#76 | CP-171030 | 0613 | - |  | Addition of APN-Validity-Time AVP | 14.5.0 |
| 2017-06 | CT#76 | CP-171026 | 0615 | - |  | AVP codes for 32.299 | 14.5.0 |
| 2017-09 | CT#77 | CP-172018 | 0616 | 1 |  | Reliable Data Service Success cause | 14.6.0 |
| 2017-09 | CT#77 | CP-172018 | 0617 | 1 |  | Reliable Data Service | 14.6.0 |
| 2017-09 | CT#77 | CP-172026 | 0618 | 1 |  | Enhancements for NAPS | 15.0.0 |
| 2017-12 | CT#78 | CP-173011 | 0625 | - |  | AVP codes for TS 29.219, TS 29.212 and TS 29.214 | 15.1.0 |
| 2017-12 | CT#78 | CP-173033 | 0619 | 1 |  | Suggested Network Configuration Request | 15.1.0 |
| 2017-12 | CT#78 | CP-173028 | 0620 | - |  | Monitoring Event Report Status | 15.1.0 |
| 2017-12 | CT#78 | CP-173028 | 0626 | - |  | AVP code for PLMN-ID-Requested in S6t | 15.1.0 |
| 2017-12 | CT#78 | CP-173032 | 0627 | - |  | New AVP for PC5-tech for WLAN based ProSe Direct Discovery | 15.1.0 |
| 2018-03 | CT#79 | CP-180021 | 0628 | 1 |  | Service Gap Time AVP | 15.2.0 |
| 2018-03 | CT#79 | CP-180020 | 0629 | 1 |  | AVP codes for 32.299 | 15.2.0 |
| 2018-03 | CT#79 | CP-180025 | 0630 | - |  | IMSI-Group-Id retrieval | 15.2.0 |
| 2018-06 | CT#80 | CP-181120 | 0631 | 1 |  | Supported-Services and Supported-Monitoring-Events | 15.3.0 |
| 2018-06 | CT#80 | CP-181120 | 0632 | 1 |  | New AVPs in TS 29.212 for eVoLP | 15.3.0 |
| 2018-06 | CT#80 | CP-181120 | 0633 | 1 |  | Reserve Diameter codes for TS 29.561 | 15.3.0 |
| 2018-06 | CT#80 | CP-181120 | 0635 | - |  | Application ID for Diameter Nta | 15.3.0 |
| 2018-06 | CT#80 | CP-181120 | 0636 | 1 |  | AVP codes for TS 29.154 | 15.3.0 |
| 2018-06 | CT#80 | CP-181120 | 0637 | 1 |  | New AVP for subscription for Aerial UE in 3GPP system | 15.3.0 |
| 2018-06 | CT#80 | CP-181120 | 0639 | 1 |  | AVP codes for 32.299 | 15.3.0 |
| 2018-06 | CT#80 | CP-181124 | 0640 | 1 |  | Subscription data for ciphering keys | 15.3.0 |
| 2018-06 | CT#80 | CP-181127 | 0634 | - |  | AVP code for NIR-Flags | 15.3.0 |
| 2018-09 | CT#81 | CP-182080 | 0642 | - |  | AVP code for TS 29.214 | 15.4.0 |
| 2018-09 | CT#81 | CP-182073 | 0643 | - |  | AVP codes for TS 29.468 | 15.4.0 |
| 2018-09 | CT#81 | CP-182073 | 0644 | - |  | Update tables due to N6 | 15.4.0 |
| 2018-09 | CT#81 | CP-182073 | 0645 | 1 |  | Change of value type of Maximum Packet Loss Rate | 15.4.0 |
| 2018-09 | CT#81 | CP-182073 | 0646 | 1 |  | Subscribed PTW length | 15.4.0 |
| 2018-09 | CT#81 | CP-182073 | 0647 | 1 |  | Policy Update when UE suspends | 15.4.0 |
| 2018-09 | CT#81 | CP-182073 | 0648 | 1 |  | Command Codes for Nta Diameter Application | 15.4.0 |
| 2018-09 | CT#81 | CP-182084 | 0649 | - |  | Core Network Restrictions | 15.4.0 |
| 2018-09 | CT#81 | CP-182071 | 0651 | - |  | DSR-Flag for eDRX-Cycle-Length | 15.4.0 |
| 2018-12 | CT#82 | CP-183092 | 0653 | 1 |  | Interworking-5GS-Indicator AVP definition | 15.5.0 |
| 2018-12 | CT#82 | CP-183095 | 0652 | 1 |  | Monitoring event report | 15.5.0 |
| 2018-12 | CT#82 | CP-183102 | 0654 | - |  | Wrong AVP type in Access-Restriction-Data | 15.5.0 |
| 2018-12 | CT#82 | CP-183102 | 0655 | - |  | NIDD group authorization | 15.5.0 |
| 2019-03 | CT#83 | CP-190036 | 0656 | 1 |  | New AVP for MB2 | 15.6.0 |
| 2019-03 | CT#83 | CP-190036 | 0657 | 1 |  | RTR-Flags | 15.6.0 |
| 2019-03 | CT#83 | CP-190037 | 0658 | 1 |  | Handling of multiple external IDs for the same UE | 15.6.0 |
| 2019-09 | CT#85 | CP-192125 | 0662 | - |  | Add P-CSCF subscription info to Restoration information | 16.0.0 |
| 2019-09 | CT#85 | CP-192122 | 0661 | 1 |  | Event type PDN Connectivity Status | 16.0.0 |
| 2019-09 | CT#85 | CP-192122 | 0664 | - |  | Ethernet PDN Type AVP | 16.0.0 |
| 2019-09 | CT#85 | CP-192121 | 0663 | 1 |  | Communication pattern enhancement | 16.0.0 |
| 2019-12 | CT#86 | CP-193035 | 0669 | 1 |  | UE Status Suspend | 16.1.0 |
| 2019-12 | CT#86 | CP-103038 | 0666 | 1 |  | New Error Code for TS 29.336 | 16.1.0 |
| 2019-12 | CT#86 | CP-103038 | 0671 | - |  | Subscribed ARPI AVP | 16.1.0 |
| 2019-12 | CT#86 | CP-103038 | 0672 | - |  | Network Parameter Configuration Reporting AVP | 16.1.0 |
| 2019-12 | CT#86 | CP-103038 | 0673 | 2 |  | New AVP defiened in TS 29.214 for Callee-Information | 16.1.0 |
| 2019-12 | CT#86 | CP-193040 | 0667 | - |  | S-CSCF restoration after registration timer expiry | 16.1.0 |
| 2019-12 | CT#86 | CP-193052 | 0665 | 1 |  | Battery Indication for Communication pattern enhancement | 16.1.0 |
| 2020-03 | CT#87e | CP-200041 | 0676 | 1 |  | AVP codes for 32.299 | 16.2.0 |
| 2020-03 | CT#87e | CP-200041 | 0678 | - |  | New AVPs in TS 29.214 | 16.2.0 |
| 2020-03 | CT#87e | CP-200027 | 0677 | 3 |  | Addition of AVP code for IAB-Node-Information AVP | 16.2.0 |
| 2020-03 | CT#87e | CP-200036 | 0679 | - |  | Subscription data for NR V2X | 16.2.0 |
| 2020-03 | CT#87e | CP-200050 | 0680 | - |  | Reachability Cause | 16.2.0 |
| 2020-06 | CT#88e | CP-201016 | 0685 | - |  | SMSF Address | 16.3.0 |
| 2020-06 | CT#88e | CP-201049 | 0681 | - |  | Authorized PLMNs and RATs for V2X | 16.3.0 |
| 2020-06 | CT#88e | CP-201049 | 0682 | - |  | Subscribed PC5 QoS Parameters for NR V2X | 16.3.0 |
| 2020-09 | CT#89e | CP-202094 | 0687 | 1 |  | AVP Codes for TS 29.214 | 16.4.0 |
| 2020-12 | CT#90e | CP-203032 | 0688 | - |  | Extended Reference ID | 16.5.0 |
| 2021-03 | CT#90e | CP-210057 | 0689 | - |  | Default APN for Ethernet PDN types | 16.6.0 |
| 2021-09 | CT#93e | CP-212073 | 0690 | 1 | F | APN Rate Control Status | 16.7.0 |