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Foreword

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1 Scope

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

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

2 References

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

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

Diameter protocol".

• 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: "3GPP Diameter charging application". |
| [6] | 3GPP TS 29.234: "3GPP System to WLAN Interworking; Stage 3 Description". |
| [7] | 3GPP TS 29.109: "Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Protocol details". |
| [8] | 3GPP TS 29.209: "Technical Specification Group Core Network; 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; Online Charging System (OCS): Applications and interfaces;". |
| [15] | 3GPP TS 29.210: "Charging rule provisioning over Gx interface". |
| [16] | 3GPP TS 29.140 Release 6: "Multimedia Messaging Service (MMS); MM10 interface based on |

| [17] | 3GPP TS 29.211: "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 over Gx reference point". |
| [20] | 3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces". |
| [21] | 3GPP TS 29.272: "MME and SGSN Related Interfaces Based on Diameter Protocol". |
| [22] | 3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point". |
| [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; EPC LCS Protocol (ELP) between the GMLC and the MME; SLg interface". |
| [25] | 3GPP TS 29.173: "Location Services; Diameter-based SLh interface for Control Plane LCS". |

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
LANA Interpret Assigned No.

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] |

5 Command codes

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

5.1 Command codes allocated for 3GPP

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

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

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

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

| Command code value | Command name | Abbreviation | Specified in 3GPP TS |
|--------------------|---------------------------------|--------------|-------------------------|
| 8388620 | Provide-Location-Request/Answer | PLR/PLA | 20 472 [24] |
| 8388621 | Location-Report-Request/Answer | LRR/LRA | 29.172 [24] |
| 8388622 | LCS-Routing-Info-Request/Answer | RIR/RIA | 29.173 [25] |

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 Cod e | Attribute Name | Data Type | Specified in the 3GPP TS |
|-----------------|--|-------------------------|--------------------------|
| 100 | 3GPP-WLAN-APN-Id | OctetString | |
| | 3GPP-WLAN-QoS-Filter-Rule | UTF8String | 29.234 [6] |
| | 3GPP-WLAN-QoS-Filter-Support | OctetString | |
| Note: | The AVP codes from 1 to 255 are reserved for backwards compatik | oility with 3GPP RADIUS | Vendor Specific |
| Attrib | utes (See TS 29.061 [13] and TS 29.234 [6]) | | |
| Note: | The AVP codes from 256 to 299 are reserved for future use. | | |
| 300 | Authentication-Method | Enumerated | |
| 301 | Authentication-Information-SIM | OctetString | |
| 302 | Authorization -Information-SIM | OctetString | |
| 303 | WLAN-User-Data | Grouped | |
| 304 | Charging-Data | Grouped | |
| | WLAN-Access | Enumerated | 1 |
| | WLAN- 3GPP-IP-Access | Enumerated | 1 |
| | APN-Authorized | Grouped | 1 |
| | APN-Id | • | 1 |
| | APN-Barring-Type | Enumerated | 00 00 4 [0] |
| | WLAN-Direct-IP-Access | Enumerated | 29.234 [6] |
| | Session-Request-Type | Enumerated | 1 |
| | Routing-Policy | IPFilterRule | 1 |
| | Max-Requested-Bandwidth | OctetString | † |
| | Charging-Characteristics | Integer | ┪ |
| | Charging-Nodes | Grouped | = |
| | Primary-OCS-Charging-Function-Name | DiameterIdentity | † |
| | Secondary-OCS-Charging-Function-Name | DiameterIdentity | = |
| | 3GPP-AAA-Server-Name | DiameterIdentity | 4 |
| | | | 4 |
| | Maximum-Number-Accesses The AVP codes from 320 to 399 are reserved for TS 29.234 | Unsigned32 | |
| | GBA-UserSecSettings | OctetString | |
| | Transaction-Identifier | OctetString | |
| 402 | NAF-Hostname | OctetString | ╡ |
| | GAA-Service-Identifier | OctetString | |
| 404 | Key-ExpiryTime | Time | 1 |
| | ME-Key-Material | OctetString | |
| | UICC-Key-Material | OctetString | _ |
| 407 | GBA_U-Awareness-Indicator | Enumerated | |
| 408 | BootstrapInfoCreationTime GUSS-Timestamp | Time Time | |
| | GBA-Type | Enumerated | 29.109 [7] |
| | UE-Id | OctetString | 29.103[1] |
| | UE-Id-Type | Enumerated | 1 |
| 413 | UICC-App-Label | OctetString | 1 |
| 414 | UICC-MÉ | Enumerated | |
| | Requested-Key-Lifetime | Time |] |
| | Private-Identity-Request | Enumerated | _ |
| 417 | GBA-Push-Info | OctetString | 4 |
| 418 | NAF-SA-Identifier | OctetString | 4 |
| | Security-Feature-Request Security-Feature-Response | OctetString OctetString | - |
| | The AVP codes from 421 to 499 are reserved for TS 29.109 | Octetating | |
| | Abort-Cause | Enumerated | |
| | Access-Network-Charging-Address | | - |
| | | Address | - |
| | Access-Network-Charging-Identifier | Grouped | 29.209 [8], |
| | Access-Network-Charging-Identifier-Value | OctetString | 29.211 [17] , |
| | AF-Application-Identifier | OctetString | 29.214 [18] |
| | AF-Charging-Identifier | OctetString | - |
| | Authorization-Token | OctetString | 4 |
| 507 | Flow-Description | IPFilterRule | <u> </u> |

| Sob Flow-Number | | | | |
|--|-----|--|-------------|------------|
| 10 10 10 10 10 10 10 10 | | | | |
| 1911 Flow-Status | | | | |
| STATE Flow-Usage | 510 | Flows | Grouped | |
| Specific-Action | 511 | Flow-Status | Enumerated | |
| STATE Max-Requested-Bandwidth | 512 | Flow-Usage | Enumerated | |
| STE Max-Requested-Bandwidth-UL | 513 | Specific-Action | Enumerated | |
| STE Max-Requested-Bandwidth-UL | 514 | Max-Requested-Bandwidth | Unsigned32 | |
| STP Max-Requested-Bandwidth-UL | | | | |
| STP Media-Component-Description Grouped | | | | |
| Bedia Component AVP | | | | |
| Section | | | | |
| Second S | | | | |
| SEZ RR-Bandwidth | | | | |
| S22 RS-Bandwidth | | | | |
| Sign | | | | |
| E24 Codec-Data OctetString | | | | |
| Sezione-URN | | | | |
| S26 | | | OctetString | |
| | 525 | Service-URN | OctetString | |
| Face | 526 | Acceptable-Service-Info | Grouped | |
| Face | | | Enumerated | |
| AF-Signalling-Protocol Enumerated | | | - | |
| Note: The AVP codes from 530 to 599 are reserved for TS 29.209, TS 29.211 and TS 29.214 | | | Enumerated | |
| Foot Public-Identity UTF8String | | | | |
| Foot Bublic-Identity Butter But | | | | |
| 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-Authentication OctetString 610 SIP-Authorization OctetString 611 SIP-Authorization OctetString 612 SIP-Auth-Data-Item OctetString 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 Pr | | | | |
| 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-Authentication-Context OctetString 611 SIP-Auth-Data-Item Grouped 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-Code Enumerated 618 Charging-Information Grouped 619 Primary-Event-Charging-Function-Name DiameterURI 621 Secondary-Event-Charging-Function-Name DiameterURI 621 Primary-Charging-Collection-Function-Name DiameterURI | | | | |
| Foot Mandatory-Capability Unsigned32 | | | - U | |
| E05 Optional-Capability Unsigned32 | | | | |
| Cote | | | | |
| 607 SIP-Number-Auth-Items | | | | |
| 608 SIP-Authentication-Scheme CotetString Gorgin SIP-Authenticate CotetString Gorgin SIP-Authenticate CotetString Gorgin SIP-Authentication CotetString Gorgin SIP-Authentication-Context CotetString Gorgin SIP-Authentication-Context CotetString Gorgin SIP-Item Corpused Gorgin SIP-Item-Number CotetString Gorgin SIP-Item-Number CotetString Gorgin CotetStri | 606 | User-Data | OctetString | |
| 609 SIP-Authenticate OctetString 610 SIP-Authentization OctetString 611 SIP-Authentication-Context OctetString 612 SIP-Authentication-Context OctetString 613 SIP-Authenticater 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-ID Unsigned32 631 Supported-Applications Grouped 632 Associated-Identities Grouped 633 Originating-Request Enumerated 634 Wildcarded-Public-Identity UTF8String 635 Wildcarded-IMPU UTF8String 636 Wildcarded-IMPU UTF8String 637 UAR-Flags Unsigned32 638 Loose-Route-Indication Enumerated 639 SCSCF-Restoration-Info 630 CotetString 631 SCSCF-Restoration-Info 632 Path OctetString 633 CotetString 634 Path OctetString | 607 | SIP-Number-Auth-Items | Unsigned32 | |
| 609 SIP-Authenticate OctetString 610 SIP-Authentization OctetString 611 SIP-Authentication-Context OctetString 612 SIP-Authentication-Context OctetString 613 SIP-Authenticater 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-ID Unsigned32 631 Supported-Applications Grouped 632 Associated-Identities Grouped 633 Originating-Request Enumerated 634 Wildcarded-Public-Identity UTF8String 635 Wildcarded-IMPU UTF8String 636 Wildcarded-IMPU UTF8String 637 UAR-Flags Unsigned32 638 Loose-Route-Indication Enumerated 639 SCSCF-Restoration-Info 630 CotetString 631 SCSCF-Restoration-Info 632 Path OctetString 633 CotetString 634 Path OctetString | 608 | SIP-Authentication-Scheme | UTF8String | |
| 610 SIP-Authorization 611 SIP-Authoritation-Context 612 SIP-Auth-Data-Item 613 SIP-Item-Number 614 Server-Assignment-Type 615 Deregistration-Reason 616 Reason-Code 617 Reason-Info 618 Charging-Information 619 Primary-Event-Charging-Function-Name 620 Secondary-Event-Charging-Function-Name 621 Primary-Charging-Collection-Function-Name 622 Secondary-Charging-Collection-Function-Name 623 User-Authorization-Type 624 User-Data-Already-Available 625 Confidentiality-Key 626 Integrity-Key 627 User-Data-Request-Type 628 Supported-Features 629 Feature-List-ID 630 Feature-List 631 Supported-Applications 632 Associated-Identities 633 Originating-Request 634 Wildcarded-Public-Identity 635 User-Restoration-Info 637 UAR-Flags 638 Loose-Route-Indication 639 SCSCF-Restoration-Info 630 CetelString 637 UAR-Flags 638 Consider-Indication 639 SCSCF-Restoration-Info 630 CetelString 637 UAR-Flags 638 Consider-Indication 639 SCSCF-Restoration-Info 630 CetelString 637 UAR-Flags 638 Consider-Indication 639 SCSCF-Restoration-Info 630 CetelString 631 CetelString 633 Contined-Info | | | | |
| 611 SIP-Authentication-Context 612 SIP-Auth-Data-Item 613 SIP-Item-Number 613 SIP-Item-Number 614 Server-Assignment-Type 615 Deregistration-Reason 616 Reason-Code 616 Reason-Code 617 Reason-Info 618 Charging-Information 619 Primary-Event-Charging-Function-Name 620 Secondary-Event-Charging-Function-Name 621 Primary-Charging-Collection-Function-Name 622 Primary-Charging-Collection-Function-Name 623 User-Authorization-Type 624 User-Data-Already-Available 625 Confidentiality-Key 626 Integrity-Key 627 User-Data-Request-Type 628 Supported-Features 629 Feature-List-ID 629 Feature-List-ID 630 Grouped 631 Supported-Applications 632 Associated-Identities 633 Originating-Request 634 Wildcarded-Public-Identity 635 Unsigned32 636 Sup-Digest-Authenticate 637 UAR-Flags 638 Loose-Route-Indication 639 CSCSF-Restoration-Info 630 CotetString 637 UAR-Flags 638 CotetString 639 CSCSF-Restoration-Info 639 CSCSF-Restoration-Info 630 CotetString 637 UAR-Flags 638 CotetString 639 CSCSF-Restoration-Info 630 CotetString 630 CotetString 631 CotetString 632 Associated-Indication 633 CotetString 634 Unsigned32 635 CotetString 636 CotetString 637 UAR-Flags 638 CotetString 639 CSCSF-Restoration-Info 639 CotetString 630 CotetString 630 CotetString 631 CotetString 632 CotetString 633 CotetString 634 Path | | | | |
| 612 SIP-Auth-Data-Item 613 SIP-Item-Number 614 Server-Assignment-Type 615 Deregistration-Reason 616 Reason-Code 617 Reason-Info 618 Charging-Information 619 Primary-Event-Charging-Function-Name 620 Secondary-Event-Charging-Function-Name 621 Primary-Event-Charging-Function-Name 622 Secondary-Collection-Function-Name 623 User-Authorization-Type 624 User-Data-Already-Available 625 Confidentiality-Key 626 Integrity-Key 627 User-Data-Request-Type 628 Supported-Features 629 Feature-List-ID 630 Grouped 631 Supported-Applications 632 Associated-Identities 633 Originating-Request 634 Wildcarded-Public-Identity 635 SIP-Digest-Authenticate 635 Corouped 636 Wildcarded-IMPU 637 User-Bats 638 Loose-Route-Indication 639 SCSCF-Restoration-Info 630 CotetString 631 Supported 632 Conjuged 633 Originating-Request 634 Wildcarded-IMPU 635 SIP-Digest-Authenticate 636 Wildcarded-IMPU 637 User-Bats 638 CSCF-Restoration-Info 639 SCSCF-Restoration-Info 630 CotetString 630 Grouped 631 Supported Supp | | | | |
| 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-ID 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 CoSCF-Restoration-Info Grouped 639 SCSCF-Restoration-Info Grouped 640 Path OctetString | | | | |
| Server-Assignment-Type | | | | |
| 615 Deregistration-Reason 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 CocketString Grouped 639 SCSCF-Restoration-Info Grouped 640 Path | | | | |
| 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 | | | | |
| 617 Reason-Info 618 Charging-Information 619 Primary-Event-Charging-Function-Name 620 Secondary-Event-Charging-Function-Name 621 Primary-Charging-Collection-Function-Name 622 Secondary-Charging-Collection-Function-Name 623 User-Authorization-Type 624 User-Data-Already-Available 625 Confidentiality-Key 626 Integrity-Key 627 User-Data-Request-Type 628 Supported-Features 629 Feature-List-ID 629 Feature-List-ID 630 Feature-List 631 Supported-Applications 632 Associated-Identities 633 Originating-Request 634 Wildcarded-Public-Identity 635 SIP-Digest-Authenticate 636 Wildcarded-IMPU 637 UAR-Flags 638 Loose-Route-Indication 639 SCSCF-Restoration-Info 630 Grouped 630 Grouped 631 Originating-Restoration-Info 632 Congued 633 Corouped 634 Unsigned32 636 Enumerated 637 UAR-Flags 638 CSCF-Restoration-Info 639 SCSCF-Restoration-Info 630 Grouped 630 CotetString 630 Grouped 631 Corouped 632 Corouped 633 CSCF-Restoration-Info 633 CSCF-Restoration-Info 634 CotetString 635 Corouped 636 Path | | | | |
| 618Charging-InformationGrouped619Primary-Event-Charging-Function-NameDiameterURI620Secondary-Event-Charging-Function-NameDiameterURI621Primary-Charging-Collection-Function-NameDiameterURI622Secondary-Charging-Collection-Function-NameDiameterURI623User-Authorization-TypeEnumerated624User-Data-Already-AvailableEnumerated625Confidentiality-KeyOctetString626Integrity-KeyOctetString627User-Data-Request-TypeEnumerated628Supported-FeaturesGrouped629Feature-List-IDUnsigned32630Feature-ListUnsigned32631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | | |
| 619Primary-Event-Charging-Function-NameDiameterURI620Secondary-Event-Charging-Function-NameDiameterURI621Primary-Charging-Collection-Function-NameDiameterURI622Secondary-Charging-Collection-Function-NameDiameterURI623User-Authorization-TypeEnumerated624User-Data-Already-AvailableEnumerated625Confidentiality-KeyOctetString626Integrity-KeyOctetString627User-Data-Request-TypeEnumerated628Supported-FeaturesGrouped629Feature-List-IDUnsigned32630Feature-ListUnsigned32631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | Ŭ | |
| 620Secondary-Event-Charging-Function-NameDiameterURI621Primary-Charging-Collection-Function-NameDiameterURI622Secondary-Charging-Collection-Function-NameDiameterURI623User-Authorization-TypeEnumerated624User-Data-Already-AvailableEnumerated625Confidentiality-KeyOctetString626Integrity-KeyOctetString627User-Data-Request-TypeEnumerated628Supported-FeaturesGrouped629Feature-List-IDUnsigned32631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | Grouped | |
| Primary-Charging-Collection-Function-Name DiameterURI | 619 | Primary-Event-Charging-Function-Name | DiameterURI | |
| Primary-Charging-Collection-Function-Name DiameterURI | 620 | Secondary-Event-Charging-Function-Name | DiameterURI | 00 000 101 |
| 622Secondary-Charging-Collection-Function-NameDiameterURI623User-Authorization-TypeEnumerated624User-Data-Already-AvailableEnumerated625Confidentiality-KeyOctetString626Integrity-KeyOctetString627User-Data-Request-TypeEnumerated628Supported-FeaturesGrouped629Feature-List-IDUnsigned32630Feature-ListUnsigned32631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | DiameterURI | 29.229 [2] |
| 623User-Authorization-TypeEnumerated624User-Data-Already-AvailableEnumerated625Confidentiality-KeyOctetString626Integrity-KeyOctetString627User-Data-Request-TypeEnumerated628Supported-FeaturesGrouped629Feature-List-IDUnsigned32630Feature-ListUnsigned32631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | | |
| 624User-Data-Already-AvailableEnumerated625Confidentiality-KeyOctetString626Integrity-KeyOctetString627User-Data-Request-TypeEnumerated628Supported-FeaturesGrouped629Feature-List-IDUnsigned32630Feature-ListUnsigned32631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | | |
| 625Confidentiality-KeyOctetString626Integrity-KeyOctetString627User-Data-Request-TypeEnumerated628Supported-FeaturesGrouped629Feature-List-IDUnsigned32630Feature-ListUnsigned32631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | | |
| 626Integrity-KeyOctetString627User-Data-Request-TypeEnumerated628Supported-FeaturesGrouped629Feature-List-IDUnsigned32630Feature-ListUnsigned32631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | | |
| 627User-Data-Request-TypeEnumerated628Supported-FeaturesGrouped629Feature-List-IDUnsigned32630Feature-ListUnsigned32631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | | |
| 628Supported-FeaturesGrouped629Feature-List-IDUnsigned32630Feature-ListUnsigned32631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | Ü | |
| 629Feature-List-IDUnsigned32630Feature-ListUnsigned32631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | | |
| 630Feature-ListUnsigned32631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | | |
| 631Supported-ApplicationsGrouped632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | | |
| 632Associated-IdentitiesGrouped633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | | |
| 633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | | |
| 633Originating-RequestEnumerated634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | Grouped | |
| 634Wildcarded-Public-IdentityUTF8String635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | 633 | Originating-Request | Enumerated | |
| 635SIP-Digest-AuthenticateGrouped636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | | |
| 636Wildcarded-IMPUUTF8String637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | | |
| 637UAR-FlagsUnsigned32638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | | |
| 638Loose-Route-IndicationEnumerated639SCSCF-Restoration-InfoGrouped640PathOctetString | | | | |
| 639 SCSCF-Restoration-Info Grouped 640 Path OctetString | | | | |
| 640 Path OctetString | | | | |
| | | | | |
| 641 Contact OctetString | | | | |
| | 641 | Contact | OctetString | |

| | Subscription-Info | Grouped | |
|-------|---|-------------|------------|
| | Call-ID-SIP-Header | OctetString | |
| | From-SIP-Header | OctetString | |
| | To-SIP-Header | OctetString | |
| | 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 | |
| | The AVP codes from 652 to 699 are reserved for TS 29.229. | | |
| | User-Identity | Grouped | |
| | MSISDN | OctetString | |
| | User-Data | OctetString | |
| | Data-Reference | Enumerated | |
| | Service-Indication | OctetString | |
| | | | |
| | Subs-Req-Type | Enumerated | |
| | Requested-Domain | Enumerated | 29.329 [4] |
| | Current-Location | Enumerated | |
| | Identity-Set | Enumerated | |
| | Expiry-Time | Time | |
| | Send-Data-Indication | Enumerated | |
| | DSAI-Tag | OctetString | |
| | One-Time-Notification | Enumerated | |
| | Requested-Nodes | Unsigned32 | |
| Note: | The AVP codes from 714 to 799 are reserved for TS 29.329. | | |
| Note: | The AVP codes from 800 to 822 are reserved for TS 32.299. | | |
| | Event-Type | Grouped | |
| | SIP-Method | UTF8String | |
| | Event | UTF8String | |
| | Content-Type | UTF8String | |
| | Content-Length | Unsigned32 | |
| | Content-Length Content-Disposition | UTF8String | |
| | Role-of-Node | | |
| | | Enumerated | |
| | User-Session-Id | UTF8String | |
| | Calling-Party-Address | UTF8String | |
| | Called-Party-Address | UTF8String | |
| | Time-Stamps | Grouped | |
| | SIP-Request-Timestamp | Time | |
| | SIP-Response-Timestamp | Time | |
| | Application-Server | UTF8String | |
| 837 | Application-provided-called-party-address | UTF8String | |
| 838 | Inter-Operator-Identifier | Grouped | |
| 839 | Originating-IOI | UTF8String | |
| | Terminating-IOI | UTF8String | |
| | IMS-Charging-Identifier | UTF8String | 00 000 171 |
| | SDP-Session-Description | UTF8String | 32.299 [5] |
| | SDP-Media-Component | Grouped | |
| | SDP-Media-Name | UTF8String | |
| | SDP-Media-Name SDP-Media-Description | UTF8String | |
| | CG-Address | Address | |
| | GGSN-Address | Address | |
| | | | |
| | Served-Party-IP-Address | Address | |
| | Authorized-QoS | UTF8String | |
| | Application-Server-Information | Grouped | |
| | Trunk-Group-Id | Grouped | |
| | Incoming-Trunk-Group-Id | UTF8String | |
| | Outgoing-Trunk-Group-Id | UTF8String | |
| | Bearer-Service | OctetString | |
| | Service-Id | UTF8String | |
| 856 | Associated-URI | UTF8String | |
| 857 | Charged-Party | UTF8String | |
| | PoC-Controlling-Address | UTF8String | |
| | PoC-Group-Name | UTF8String | |
| | Cause | Grouped | |
| | ı | | |

| 004 | Course Code | late we way | |
|-----|--|---------------------------|-------------|
| | Cause-Code | Integer32 | |
| | Node-Functionality | Enumerated | |
| | Service-Specific-Data | UTF8String | |
| | Originator DS Francis Character Information | Enumerated | |
| | PS-Furnish-Charging-Information | Grouped | |
| | PS-Free-Format-Data | OctetString | |
| | PS-Append-Free-Format-Data | Enumerated | |
| | Time-Quota-Threshold | Unsigned32 | |
| | Volume-Quota-Threshold | Unsigned32 | |
| | Trigger-Type | Enumerated | |
| | Quota-Holding-Time | Unsigned32 | |
| | Reporting-Reason | Enumerated | |
| | Service-Information | Grouped | |
| | PS-Information PS-Information | Grouped | |
| | WLAN-Information | Grouped | |
| | IMS-Information | Grouped | |
| | MMS-Information | Grouped | |
| | LCS-Information | Grouped | |
| | PoC-Information | Grouped | |
| 880 | MBMS-Information | Grouped | |
| | Quota-Consumption-Time | Unsigned32 | |
| | Media-Initiator-Flag | Enumerated | |
| | PoC-Server-Role | Enumerated | |
| | PoC-Session-Type | Enumerated | |
| 885 | Number-Of-Participants | Unsigned32 | |
| 886 | Originator-Address | Grouped | |
| 887 | Participants-Involved | UTF8String | |
| | Expires | Unsigned32 | |
| | Message-Body | Grouped | |
| | WAG-Address | Address | |
| | WAG-PLMN-Id | OctetString | |
| | WLAN-Radio-Container | Grouped | |
| | WLAN-Technology | Unsigned32 | |
| | WLAN-UE-Local-IPAddress | Address | |
| | PDG-Address | Address | |
| | PDG-Charging-Id | Unsigned32 | |
| | Address-Data | UTF8String | |
| | Address-Domain | Grouped | |
| | Address-Type | Enumerated | |
| 000 | 7.00.000 1990 | Enamerated | |
| 900 | TMGI | OctectString | |
| | Required-MBMS-Bearer-Capabilities | UTF8String | |
| | MBMS-StartStop-Indication | Enumerated | |
| | MBMS-Service-Area | OctectString | |
| | MBMS-Session-Duration | Unsigned32 | |
| | Alternative-APN | UTF8String | |
| | MBMS-Service-Type | Enumerated | |
| | | | |
| | MBMS-2G-3G-Indicator | Enumerated OctetString | |
| | MBMS-Session-Identity | | |
| 909 | | UTF8String | |
| | Additional-MBMS-Trace-Info | OctetString | |
| | MBMS-Time-To-Data-Transfer | Unsigned32 | 00 004 7407 |
| | MBMS-Session-Identity-Repetition-Number | Unsigned32 | 29.061 [13] |
| | MBMS-Required-QoS | UTF8String | |
| | MBMS-Counting-Information | Enumerated | |
| | MBMS-User-Data-Mode-Indication | Enumerated | |
| | MBMS-GGSN-Address | UTF8String | |
| | MBMS-GGSN-IPv6-Address | UTF8String | |
| | MBMS-BMSC-SSM-IP-Address | UTF8String | |
| | MBMS-BMSC-SSM-IPv6-Address | UTF8String | |
| | MBMS-Flow-Identifier | OctetString | |
| | CN-IP-Multicast-Distribution | Enumerated | |
| | MBMS-HC-Indicator | Enumerated | |
| | MBMS-Access-Indicator | Enumerated | |
| 924 | MBMS-GW-SSM-IP-Address | OctetString | |
| | | | |

| ODE MANA CIVI COM IDVO Address | Octotetrina | |
|--|----------------------------|-------------|
| 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 | |
| Note: The AVP codes from 929 to 999 are reserved for TS 29.061 | Circuiss a make al | |
| 1000 Bearer-Usage | Enumerated | |
| 1001 Charging-Rule-Install | Grouped | |
| 1002 Charging-Rule-Remove | Grouped | |
| 1003 Charging-Rule-Definition | Grouped | |
| 1004 Charging-Rule-Base-Name | UTF8String | |
| 1005 Charging-Rule-Name | OctetString | |
| 1006 Event-Trigger | Enumerated | |
| 1007 Metering-Method | Enumerated | |
| 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 | 29.212 [19] |
| 1032 RAT-Type | Enumerated | |
| 1033 Event-Report-Indication | Grouped | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address | Grouped Address | |
| 1036 Tunnel-Header-Filter | | |
| 1037 Tunnel-Header-Length | IPFilterRule Unsigned32 | |
| 1037 Tunnel-neader-Length 1038 Tunnel-Information | Grouped | |
| 1039 CoA-Information | Grouped | |
| 1040 APN-Aggregate-Max-Bitrate-DL | | |
| 1040 APN-Aggregate-Max-Bitrate-UL | Unsigned32 Unsigned32 | |
| 1041 Revalidation-Time | Time | |
| | Time | |
| 1043 Rule-Activation-Time 1044 Rule-DeActivation-Time | Time | |
| 1045 Session-Release-Cause | Enumerated | |
| 1046 Priority-Level | Unsigned32 | |
| 1047 Pre-emption-Capability | Enumerated | |
| 1047 Pre-emption-Capability 1048 Pre-emption-Vulnerability | Enumerated | |
| 1049 Default-EPS-Bearer-QoS | Grouped | |
| 1050 AN-GW-Address | Address | |
| 1050 An-Gw-Address 1051 QoS-Rule-Install | Grouped | |
| 1051 Q05-Rule-Install 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 | |
| 1056 Security-Parameter-index | OctetString | |
| 1057 Flow-Label | Grouped | |
| 1059 Packet-Filter-Content | IPFilterRule | |
| 1060 Packet-Filter-Identifier | OctetString | |
| 1060 Packet-Filter-Identifier 1061 Packet-Filter-Information | Grouped | |
| TOOT IT AUNCE THE ITHIUM AUUM | Groupeu | |

| 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 reserved | e ir ceanig | |
| 1076 reserved | | |
| 1077 reserved | | |
| | | |
| 1078 reserved | | |
| 1079 reserved | | |
| 1080 Flow-Direction | Enumerated | |
| Note: The AVP codes from 1081 to 1099 are reserved for TS 29.212 | | |
| 1100 Served-User-Identity | Groupe | |
| 1101 VASP-ID | UTF8Str | |
| 1102 VAS-ID | UTF8String | |
| 1103 Trigger-Event | Enumerated | |
| 1104 Sender-Address | UTF8String | |
| 1105 Initial-Recipient-Address | Grouped | |
| 1106 Result-Recipient-Address | Grouped | |
| 1107 Sequence-Number | Unsigned32 | |
| 1108 Recipient-Address | UTF8String | |
| 1109 Routeing-Address | UTF8String | 29.140 [16] |
| 1110 Originating-Interface | Enumerated | |
| 1111 Delivery-Report | Enumerated | |
| 1112 Read-Reply | Enumerated | |
| 1113 Sender-Visibility | Enumerated | |
| 1114 Service-Key | UTF8String | |
| 1115 Billing-Information | UTF8String | |
| 1116 Status | Grouped | |
| 1117 Status-Code | UTF8String | |
| 1118 Status-Text | UTF8String | |
| Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 | 011 ostilig | |
| 1200 Domain-Name | UTF8String | |
| 1201 Recipient-Address | | |
| | Grouped | |
| 1202 Submission-Time | Time | |
| 1203 MM-Content-Type | Grouped | |
| 1204 Type-Number | Enumerated | |
| 1205 Additional-Type-Information | UTF8String | |
| 1206 Content-Size | Unsigned32 | |
| 1207 Additional-Content-Information | Grouped | |
| 1208 Addressee-Type | Enumerated | |
| 1209 Priority | Enumerated | |
| 1210 Message-ID | UTF8String | |
| 1211 Message-Type | Enumerated | |
| 1212 Message-Size | Unsigned32 | 32.299 [5] |
| 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 | |
| 122 H to Nopali Supported | Litanieratea | |

| 1225 MBMS-User-Service-Type | Enumerated | |
|--|---------------------------------------|--|
| | 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-Client-Name | 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 WLAN-Session-Id | UTF8String | |
| 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 1399 are reserved for TS 32.299 | l 011 ooting | |
| INDIE. THE AVI COURS HOTH 1203 TO 1033 ARE RESERVED TO 12 32.299 | | |

| 1400 Subscription-Data | Grouped | |
|--|--------------------------|-------------|
| 1401 Terminal-Information | Grouped | |
| 1402 IMEI | UTF8String | |
| 1403 Software-Version | UTF8String | |
| 1404 QoS-Subscribed | UTF8String | |
| 1405 ULR-Flags | Unsigned32 | |
| 1406 ULA-Flags | Unsigned32 | |
| 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info | OctetString | |
| 1409 Requested-UTRAN- GERAN-Authentication-Info | Grouped Grouped | |
| 1410 Number-Of-Requested-Vectors | Unsigned32 | |
| 1411 Re-Synchronization-Info | OctetString | |
| 1412 Immediate-Response-Preferred | Unsigned32 | |
| 1413 Authentication-Info | Grouped | |
| 1414 E-UTRAN-Vector | Grouped | |
| 1415 UTRAN-Vector | Grouped | |
| 1416 GERAN-Vector | Grouped | |
| 1417 Network-Access-Mode | Enumerated | |
| 1418 HPLMN-ODB | Enumerated | |
| 1419 Item-Number | Unsigned32 | |
| 1420 Cancellation-Type | Enumerated | |
| 1421 DSR-Flags | Unsigned32 | |
| 1422 DSA-Flags | Unsigned32 | |
| 1423 Context-Identifier | Unsigned32 | |
| 1424 Subscriber-Status | Enumerated | |
| 1425 Operator-Determined-Barring | Unsigned32 | |
| 1426 Access-Restriction-Data | UTF8String | |
| 1427 APN-OI-Replacement | UTF8String | |
| 1428 All-APN-Configurations-Included-Indicator | Enumerated | |
| 1429 APN-Configuration-Profile | Grouped | |
| 1430 APN-Configuration | Grouped | |
| 1431 EPS-Subscribed-QoS-Profile | Grouped | |
| 1432 VPLMN-Dynamic-Address-Allowed | Enumerated | 29.272 [21] |
| 1433 STN-SR | OctetString | |
| 1434 Alert-Reason | Enumerated | |
| 1435 AMBR | Grouped | |
| 1436 CSG-Subscription-Data | Grouped | |
| 1437 CSG-Id 1438 PDN-GW-Allocation-Type | Unsigned32 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 | <u> </u> | |
| 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 MAC-14 | A 40E T | T 0 + +0+ : | |
|--|--|---|-------------|
| 1467 (GPRS-Subscription-Data Grouped | 1465 Trace-Event-List | OctetString | |
| 1468 POP-Context | | | |
| 1409 POP-Context | | | |
| 1471 3CPP-Ype | | | |
| 1471 3CPP2-MEID | | | |
| 1472 Specific-APN-Info | | | |
| 1473 CS-Info | | | |
| 1471 1475 | 1472 Specific-APN-Info | Grouped | |
| 1475 S.Code | 1473 LCS-Info | Grouped | |
| 1475 S.Code | 1474 GMLC-Number | OctetString | |
| 1476 SS-Code | 1475 LCS-PrivacyException | | |
| 1477 SS-Status | | | |
| 1478 Notification-To-UE-User | | | |
| 1479 External-Client Grouped | | | |
| 1480 Client-Identity | | | |
| Hast GMLC-Restriction | | | |
| 1482 PLMN-Client | | | |
| 1483 Service-Type | | | |
| 1484 Service TypeIdentity | | | |
| 1486 Teleservice-List Grouped 1486 Teleservice-List Grouped 1487 TS-Code Enumerated 1488 Call-Barring-Infor-List Grouped 1488 Call-Barring-Infor-List Grouped 1489 SGSN-Number OctetString 1490 IDR-Flags Unsigned32 1491 ICS-Indicator Enumerated 1492 IMS-Voice-Over-PS-Sessions-Supported Enumerated 1492 IMS-Voice-Over-PS-Sessions-Supported Enumerated 1493 Immogeneous-Support-of-IMS-Voice-Over-PS-Sessions Enumerated 1494 Last-Us-Activity-Time Time Time Time 1495 EPS-User-State Grouped 1496 EPS-Location-Information Grouped 1496 EPS-Location-Information Grouped 1498 User-State Grouped 1498 User-State Grouped 1499 User-State Enumerated 1500 Non-3GPP-User-Data Grouped 1500 Non-3GPP-User-Data Enumerated 1501 Non-3GPP-IP-Access Enumerated 1502 Non-3GPP-IP-Access Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF85tring 1505 Trace-Info Grouped 1506 MIP-FA-RK-SPI Unsigned32 1507 MIP-FA-RK-SPI Unsigned32 Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Tacking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1606 Coation-Area-Identity OctetString 1606 Coation-Area-Identity OctetString 1607 Grouped 1617 Active-APN Grouped 1618 Reserved - | | | |
| 1486 Teleservice-List | | | |
| 1487 TS-Code | | | |
| 1488 Call-Barring-Infor-List | | - | |
| 1489 GSSN-Number | | | |
| 1490 IDR-Flags | | | |
| 1491 ICS-Indicator | 1489 SGSN-Number | | |
| 1491 ICS-Indicator | 1490 IDR-Flags | Unsigned32 | |
| 1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions | 1491 ICS-Indicator | Enumerated | |
| 1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions | | | |
| 1494 Last-UE-Activity-Time | | | |
| 1495 EPS-User-State Grouped 1496 EPS-Location-Information Grouped 1497 MMC-User-State Grouped 1498 SGSN-User-State Grouped 1499 User-State Enumerated 1500 Non-3GPP-User-Data Grouped 1501 Non-3GPP-IP-Access Enumerated 1502 Non-3GPP-IP-Access Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF8String 1505 Trace-Info Grouped 1506 MIP-FA-RK OctetString 1506 MIP-FA-RK-SPI Unsigned32 Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information Grouped 1601 SGSN-Location-Information Grouped 1602 EUTRAN-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 1609 Geodetic-Information OctetString 1610 Geographical-Information OctetString 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - 1618 Reserved - | | | |
| 1496 EPS-Location-Information Grouped 1497 MME-User-State Grouped 1498 SGSN-User-State Grouped 1499 User-State Enumerated 1500 Non-3GPP-User-Data Enumerated 1501 Non-3GPP-IP-Access Enumerated 1502 Non-3GPP-IP-Access Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF8String 1505 Trace-Info Grouped 1506 MIP-FA-RK OctetString 1507 MIP-FA-RK-SPI Unsigned32 Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information Grouped 1601 SGSN-Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Rosting-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Geographical-Information OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString 1609 Geodetic-Information OctetString 1601 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | | | |
| 1497 MME-User-State Grouped 1498 SGSN-User-State Grouped 1499 User-State Enumerated 1500 Non-3GPP-User-Data Grouped 1501 Non-3GPP-IP-Access Enumerated 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 Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information Grouped 1601 SGSN-Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Cocation-Area-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString 1600 Geodetic-Information OctetString 1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | | | |
| 1498 SGSN-User-State | 1490 ET 3-Eocation-information | | |
| 1500 Non-3GPP-User-Data Grouped | 1407 MME Licar State | Grouped | |
| 1500 Non-3GPP-User-Data Grouped | | | |
| 1501 Non-3GPP-IP-Access Enumerated 1502 Non-3GPP-IP-Access-APN Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF8String 1505 Trace-Info Grouped 1506 MIP-FA-RK OctetString Unsigned32 OctetString Unsigned32 OctetString Oct | 1498 SGSN-User-State | Grouped | |
| 1501 Non-3GPP-IP-Access Enumerated 1502 Non-3GPP-IP-Access-APN Enumerated 1503 AN-Trusted Enumerated 1504 ANID UTF8String 1505 Trace-Info Grouped 1506 MIP-FA-RK OctetString Unsigned32 OctetString Unsigned32 OctetString Oct | 1498 SGSN-User-State | Grouped | |
| 1502 Non-3GPP-IP-Access-APN | 1498 SGSN-User-State 1499 User-State | Grouped Enumerated | |
| 1503 AN-Trusted Enumerated 1504 ANID UTF8String 1505 Trace-Info Grouped OctetString 1506 MIP-FA-RK OctetString Unsigned32 OctetString Unsigned32 OctetString Unsigned32 OctetString OctetS | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data | Grouped Enumerated Grouped | |
| 1504 ANID | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access | Grouped Enumerated Grouped Enumerated | |
| 1505 Trace-Info Grouped | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN | Grouped Enumerated Grouped Enumerated Enumerated | |
| 1506 MIP-FA-RK | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted | Grouped Enumerated Grouped Enumerated Enumerated Enumerated Enumerated | 29,273 [20] |
| 1507 MIP-FA-RK-SPI | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String | 29.273 [20] |
| Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information Grouped 1601 SGSN-Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Routing-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 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped | 29.273 [20] |
| 1600 MME-Location-Information Grouped 1601 SGSN-Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Location-Area-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString 1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - 1618 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString | 29.273 [20] |
| 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 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString | 29.273 [20] |
| 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 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 | 29.273 [20] |
| 1603Tracking-Area-IdentityOctetString1604Cell-Global-IdentityOctetString1605Routing-Area-IdentityOctetString1606Location-Area-IdentityOctetString1607Service-Area-IdentityOctetString1608Geographical-InformationOctetString1609Geodetic-InformationOctetString1610Current-Location-RetrievedEnumerated1611Age-Of-Location-InformationUnsigned321612Active-APNGrouped1613Reserved-1614Error-DiagnosticEnumerated1615Reserved-1616Reserved-1617Reserved-1618Reserved- | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped | 29.273 [20] |
| 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 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped | 29.273 [20] |
| 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 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped OctetString | 29.273 [20] |
| 1605Routing-Area-IdentityOctetString1606Location-Area-IdentityOctetString1607Service-Area-IdentityOctetString1608Geographical-InformationOctetString1609Geodetic-InformationOctetString1610Current-Location-RetrievedEnumerated1611Age-Of-Location-InformationUnsigned321612Active-APNGrouped1613Reserved-1614Error-DiagnosticEnumerated1615Reserved-1616Reserved-1617Reserved-1618Reserved- | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped OctetString | 29.273 [20] |
| 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 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped OctetString OctetString OctetString | 29.273 [20] |
| 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 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped Grouped OctetString OctetString OctetString | 29.273 [20] |
| 1608 Geographical-InformationOctetString1609 Geodetic-InformationOctetString1610 Current-Location-RetrievedEnumerated1611 Age-Of-Location-InformationUnsigned321612 Active-APNGrouped1613 Reserved-1614 Error-DiagnosticEnumerated1615 Reserved-1616 Reserved-1617 Reserved-1618 Reserved- | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1605 Routing-Area-Identity | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped Grouped OctetString OctetString OctetString OctetString | 29.273 [20] |
| 1609 Geodetic-Information OctetString 1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped Grouped OctetString OctetString OctetString OctetString OctetString | 29.273 [20] |
| 1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped Grouped OctetString | 29.273 [20] |
| 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped OctetString | |
| 1612 Active-APN Grouped 1613 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped OctetString | |
| 1613 Reserved - 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information 1610 Current-Location-Retrieved | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped OctetString | |
| 1614 Error-Diagnostic Enumerated 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped OctetString | |
| 1615 Reserved - 1616 Reserved - 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped OctetString | |
| 1616 Reserved - 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped OctetString | |
| 1617 Reserved - 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved 1614 Error-Diagnostic | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated | |
| 1618 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Geographical-Information 1609 Geodetic-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved 1614 Error-Diagnostic 1615 Reserved | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped OctetString CotetString OctetString OctetString Enumerated Unsigned32 Grouped - Enumerated | |
| | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved 1614 Error-Diagnostic 1615 Reserved | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped OctetString Enumerated Unsigned32 Grouped Enumerated | |
| 1619 Reserved - | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved 1614 Error-Diagnostic 1615 Reserved 1616 Reserved 1617 Reserved | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped OctetString Enumerated Unsigned32 Grouped Enumerated | |
| | 1498 SGSN-User-State 1499 User-State 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access 1503 AN-Trusted 1504 ANID 1505 Trace-Info 1506 MIP-FA-RK 1507 MIP-FA-RK-SPI Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273 1600 MME-Location-Information 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity 1603 Tracking-Area-Identity 1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1610 Current-Location-Retrieved 1611 Age-Of-Location-Information 1612 Active-APN 1613 Reserved 1614 Reserved 1616 Reserved 1617 Reserved 1617 Reserved 1618 Reserved | Grouped Enumerated Grouped Enumerated Enumerated Enumerated UTF8String Grouped OctetString Unsigned32 Grouped OctetString Enumerated Unsigned32 Grouped Enumerated | |

| 1620 Ext-PDP-Type | OctetString | |
|---|--|------------|
| 1621 Ext-PDP-Address | Address | |
| 1622 Reserved | - Address | |
| 1623 Reserved | - | |
| 1624 Reserved | - | |
| 1625 Reserved | - | |
| 1626 Reserved | - | |
| 1627 Reserved | | |
| 1628 Reserved | - | |
| | - | |
| 1629 Reserved | - | |
| 1630 Reserved | - | |
| 1631 Reserved | - | |
| 1632 Reserved | - | |
| 1633 Reserved | - | |
| 1634 Reserved | - | |
| 1635 Reserved | - | |
| 1636 Reserved | - | |
| 1637 Reserved | - | |
| 1638 CLR-Flags | Unsigned32 | |
| 1639 Reserved | - | |
| 1640 Reserved | - | |
| 1641 Reserved | - | |
| 1642 Reserved | - | |
| 1643 Reserved | - | |
| 1644 Reserved | - | |
| 1645 Reserved | - | |
| 1646 Reserved | - | |
| 1647 Reserved | - | |
| 1648 Reserved | - | |
| 1649 Reserved | - | |
| 1650 Reserved | - | |
| 1651 GMLC-Info | Grouped | |
| | | |
| | | |
| 1652 GMLC-Name | DiameterIdentity | |
| 1652 GMLC-Name 1653 GMLC-Realm | | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. | DiameterIdentity DiameterIdentity | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information | DiameterIdentity DiameterIdentity Grouped | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme | DiameterIdentity DiameterIdentity Grouped Integer32 | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString | |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString | 32,299 [5] |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString OctetString | 32.299 [5] |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated | 32.299 [5] |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Address | 32.299 [5] |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Address Address Address | 32.299 [5] |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2018 Client-Address 2019 Number-of-Messages-Sent | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address UTF8String | 32.299 [5] |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString OctetString Enumerated Address Unsigned32 Enumerated | 32.299 [5] |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Unsigned32 Enumerated Grouped | 32.299 [5] |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString Enumerated Address Address Address Address Address Unsigned32 Enumerated Grouped OctetString | 32.299 [5] |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString CotetString Enumerated Address Address Address Address Unsigned32 Enumerated Grouped OctetString UTF8String | 32.299 [5] |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString Enumerated Address Address Address Address Address Unsigned32 Enumerated Grouped OctetString | 32.299 [5] |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString CotetString Enumerated Address Address Address Address Unsigned32 Enumerated Grouped OctetString UTF8String | 32.299 [5] |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information 2025 PoC-Event-Type | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString Enumerated Address Address Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String Enumerated | 32.299 [5] |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Recipient-Info | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString Unsigned32 Enumerated Grouped OctetString UTF8String Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String Enumerated Grouped | 32.299 [5] |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Recipient-Info 2026 Recipient-Info 2027 Originator-Received-Address | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString UTF8String Enumerated Time OctetString OctetString Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String Enumerated Grouped Grouped | 32.299 [5] |
| 1652 GMLC-Name 1653 GMLC-Realm Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Text 2006 Interface-Text 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Recipient-Info | DiameterIdentity DiameterIdentity Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString Unsigned32 Enumerated Grouped OctetString UTF8String Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String Enumerated Grouped | 32.299 [5] |

| 2030 MMTel-Information | Grouped | |
|--|------------|--------------|
| 2031 MMTel-Sservice-Type | Unsigned32 | |
| 2032 Service-Mode | Unsigned32 | 1 |
| 2033 Subscriber-Role | Enumerated | 1 |
| 2034 Number-Of-Diversions | Unsigned32 | 1 |
| 2035 Associated-Party-Address | UTF8String | 1 |
| 2036 SDP-Type | Enumerated | |
| 2037 Change-Condition | Integer32 | |
| 2038 Change-Time | Time | |
| 2039 Diagnostics | Integer32 | - |
| 2040 Service-Data-Container | Grouped | - |
| 2041 Start-Time | Time | 1 |
| 2042 Stop-Time | Time | 1 |
| 2043 Time-First-Usage | Time | } |
| 2044 Time-Last-Usage | Time | <u> </u> |
| 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 | |
| Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 | | |
| 2100 reserved | - | |
| 2101 Application-Server-ID | UTF8String |] |
| 2102 Application-Service-Type | Enumerated | |
| 2103 Application-Session-ID | Unsigned32 | 1 |
| 2104 Delivery-Status | UTF8String | 1 |
| 2105 reserved | - | 1 |
| 2106 reserved | - | 1 |
| 2107 reserved | - | j |
| 2108 reserved | - | 1 |
| 2109 reserved | - | 32.299 [5] |
| 2110 IM-Information | Grouped | 02.200 [0] |
| 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-Exploded | Unsigned32 | 1 |
| 2115 DCD-Information | Grouped | { |
| 2116 Content-ID | UTF8String | { |
| | | - |
| 2117 Content-provider-ID | UTF8String | - |
| 2118 Charge-Reason-Code | Enumerated | <u> </u> |
| Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 | One | 1 |
| 2200 Subsession-Decision-Info | Grouped | - |
| 2201 Subsession-Enforcement-Info | Grouped | 00.045.5003 |
| 2202 Subsession-Id | Unsigned32 | 29.215 [22] |
| 2203 Subsession-Operation | Enumerated | |
| 2204 Multiple-BBERF-Action | Enumerated | |
| Note: The AVP codes from 2205 to 2299 are reserved for TS 29.215 | | |

| 2300 reserved | - | |
|---|--|-------------|
| 2300 leserved 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 | 32.299 [5] |
| 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 | ļ |
| 2321 Initial-IMS-Charging-Identifier | UTF8String | |
| Note: The AVP codes from 2322 to 2399 are reserved for TS 32.299 | | T |
| 2400 LMSI | OctetString | ļ |
| 2401 Serving-Node | Grouped |] |
| 2402 MME-Name | DiameterIdentity | |
| 2403 MSC-Number | OctetString | |
| 2404 LCS-Capabilities-Sets | Unsigned32 | 29.173 [25] |
| 2405 GMLC-Address | Address | |
| 2406 Additional-Serving-Node | Grouped | |
| | | |
| 2407 PPR-Address | Address |] |
| 2407 PPR-Address 2408 MME-Realm | Address DiameterIdentity | |
| | | |
| 2408 MME-Realm | | |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 | DiameterIdentity | |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type | DiameterIdentity Enumerated | |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name | Enumerated Grouped Grouped | |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority | Enumerated Grouped Grouped Unsigned32 | |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS | Enumerated Grouped Grouped | |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 | |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS | Enumerated Grouped Grouped Unsigned32 Grouped | |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Enumerated | |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Enumerated Enumerated | |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Unsigned32 Enumerated Enumerated Enumerated | |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time 2510 Supported-GAD-Shapes | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Unsigned32 | |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time 2510 Supported-GAD-Shapes 2511 LCS-Codeword | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String | 29.172 [24] |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time 2510 Supported-GAD-Shapes 2511 LCS-Codeword 2512 LCS-Privacy-Check | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Unsigned32 Enumerated Enumerated Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Unsigned32 UTF8String Enumerated | 29.172 [24] |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time 2510 Supported-GAD-Shapes 2511 LCS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Unsigned32 UTF8String Enumerated Enumerated | 29.172 [24] |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time 2510 Supported-GAD-Shapes 2511 LCS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Enumerated Enumerated Unsigned32 Unsigned32 Enumerated Enumerated Unsigned32 UTF8String Enumerated Enumerated Unsigned32 UTF8String | 29.172 [24] |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time 2510 Supported-GAD-Shapes 2511 LCS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Unsigned32 Unsigned32 CotetString | 29.172 [24] |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time 2510 Supported-GAD-Shapes 2511 LCS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Unsigned32 Unsigned32 CotetString CotetString | 29.172 [24] |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time 2510 Supported-GAD-Shapes 2511 LCS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Unsigned32 Unsigned32 CotetString OctetString | 29.172 [24] |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time 2510 Supported-GAD-Shapes 2511 LCS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Unsigned32 Unsigned32 CotetString Enumerated Unsigned32 UTF8String Enumerated | 29.172 [24] |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time 2510 Supported-GAD-Shapes 2511 LCS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Unsigned32 Unsigned32 CotetString CotetString Enumerated Enumerated Unsigned32 OctetString Enumerated Enumerated Unsigned32 OctetString CotetString Enumerated Enumerated | 29.172 [24] |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time 2510 Supported-GAD-Shapes 2511 LCS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Unsigned32 UTF8String Enumerated Unsigned32 UTF8String Enumerated Enumerated Enumerated Enumerated Unsigned32 UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Enumerated Unsigned32 | 29.172 [24] |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time 2510 Supported-GAD-Shapes 2511 LCS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Unsigned32 UTF8String Enumerated Unsigned32 UTF8String Enumerated Enumerated Unsigned32 UTF8String Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Unsigned32 Grouped | 29.172 [24] |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time 2510 Supported-GAD-Shapes 2511 LCS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Unsigned32 UTF8String Enumerated Enumerated Unsigned32 UTF8String Enumerated Enumerated Unsigned32 UTF8String Enumerated Unsigned32 OctetString OctetString OctetString OntetString Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Foumerated Enumerated Enumerated Grouped Grouped | 29.172 [24] |
| 2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 2500 Location-Type 2501 LCS-EPS-Client-Name 2502 LCS-Requestor-Name 2503 LCS-Priority 2504 LCS-QoS 2505 Horizontal-Accuracy 2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time 2510 Supported-GAD-Shapes 2511 LCS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session | Enumerated Grouped Grouped Unsigned32 Grouped Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Unsigned32 UTF8String Enumerated Unsigned32 UTF8String Enumerated Enumerated Unsigned32 UTF8String Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Unsigned32 Grouped | 29.172 [24] |

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.

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

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.

Experimental Result text Specified in the TS **Result Code** DIAMETER_FIRST_REGISTRATION 2001 2002 DIAMETER_SUBSEQUENT_REGISTRATION DIAMETER_UNREGISTERED_SERVICE 2003 29.229 [2] 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 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]

Table 8.1.2: 3GPP specific Success result codes

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

| Experimental Result Code | Result text | Specified in the TS |
|--------------------------|---|---------------------|
| 4100 | DIAMETER_USER_DATA_NOT_AVAILABLE | 29.329 [4] |
| 4101 | DIAMETER_PRIOR_UPDATE_IN_PROGRESS | |
| Note: The Experime | ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329. | |
| | DIAMETER_ERROR_OUT_OF_RESOURCES | 29.061 [13] |
| Note: The Experime | ntal Result Codes from 4121 to 4140 are reserved for the TS 29.061. | |
| | DIAMETER_PCC_BEARER_EVENT | 29.212 [19] |
| 4142 | DIAMETER_BEARER_EVENT | 29.212 [19] |
| Note: The Experime | ntal Result Codes from 4143 to 4160 are reserved for the TS 29.212 | |
| | | 32.299 [5] |
| Note: The Experime | ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299. | |
| 4181 | DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE | 29.272 [21] |
| Note: The Experime | ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272. | |
| 4201 | DIAMETER_ERROR_ABSENT_USER | 29.173 [25] |
| Note: The Experime | ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173. | |
| 4221 | DIAMETER_ERROR_UNREACHABLE_USER | |
| 4222 | DIAMETER_ERROR_SUSPENDED_USER | |
| 4223 | DIAMETER_ERROR_DETACHED_USER | 20 172 [24] |
| 4224 | DIAMETER_ERROR_POSITIONING_DENIED | 29.172 [24] |
| 4225 | DIAMETER_ERROR_POSITIONING_FAILED | |
| 4226 | DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT | |
| Note: The Experime | ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172. | |

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 text | Specified in the |
|----------------|---|------------------|
| Result Code | | TS |
| 5001 | DIAMETER_ERROR_USER_UNKNOWN | |
| 5002 | DIAMETER_ERROR_IDENTITIES_DONT_MATCH | |
| 5003 | DIAMETER_ERROR_IDENTITY_NOT_REGISTERED | |
| 5004 | DIAMETER_ERROR_ROAMING_NOT_ALLOWED | |
| 5005 | DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED | 00 000 101 |
| 5006 | DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED | 29.229 [2] |
| 5007 | DIAMETER_ERROR_IN_ASSIGNMENT_TYPE | |
| 5008 | DIAMETER_ERROR_TOO_MUCH_DATA | |
| 5009 | DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA | |
| 5010 5011 | unassigned DIAMETER_ERROR_FEATURE_UNSUPPORTED | |
| | | 2 20 220 |
| Note. The Expe | erimental Result Codes from 5012 to 5020 are reserved for the TS | 32.299 [5] |
| Note: The Eve | I erimental Result Codes from 5021 to 5040 are reserved for the TS | |
| 5041 | DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION | 3 32.299. |
| 5042 | DIAMETER_ERROR_W-APN_UNUSED_BY_USER | |
| 5042 | DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC | |
| 3043 | RIPTION | 29.234 [6] |
| 5044 | DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION | |
| 5045 | DIAMETER_ERROR_UNSUITABLE_NETWORK | |
| | primental Result Codes from 5046 to 5060 are reserved for the TS | S 29 234 |
| 5061 | INVALID_SERVICE_INFORMATION | 29.209 [8], |
| 5062 | FILTER_RESTRICTIONS | 29.211 [17] |
| | erimental Result Codes from 5063 to 5080 are reserved for TS 29 | |
| 29.2 | | 7.200 and 10 |
| 5100 | DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED | |
| 5101 | DIAMETER ERROR OPERATION NOT ALLOWED | |
| 5102 | DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ | |
| 5103 | DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED | |
| 5104 | DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED | |
| 5105 | DIAMETER ERROR TRANSPARENT DATA | 29.329 [4] |
| | OUT_OF_SYNC | |
| 5106 | DIAMETER_ERROR_SUBS_DATA_ABSENT | |
| 5107 | DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA | |
| 5108 | DIAMETER_ERROR_DSAI_NOT_AVAILABLE | |
| Note: The Expe | erimental Result Codes from 5109 to 5119 are reserved for the TS | S 29.329. |
| 5120 | DIAMETER_ERROR_START_INDICATION | |
| 5121 | DIAMETER_ERROR_STOP_INDICATION | |
| 5122 | DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E | 29.061 [13] |
| 5123 | DIAMETER_ERROR_SERVICE_AREA | |
| | erimental Result Codes from 5124 to 5139 are reserved for the TS | S 29.061. |
| 5140 | DIAMETER_ERROR_INITIAL_PARAMETERS | 20.00 |
| 5141 | DIAMETER_ERROR_TRIGGER_EVENT | |
| 5142 | DIAMETER_PCC_RULE_EVENT | |
| 5143 | DIAMETER_ERROR_BEARER_NOT_AUTHORIZED | |
| 5144 | DIAMETER ERROR TRAFFIC MAPPING INFO REJECTE | 29.212 [19] |
| | D | |
| 5145 | DIAMETER_QOS_RULE_EVENT | |
| 5146 | reserved | |
| 5147 | DIAMETER_ERROR_CONFLICTING_REQUEST | |
| | rimental Result Codes from 5148 to 5159 are reserved for the T | S 29.212. |
| 5401 | DIAMETER_ERROR_IMPI_UNKNOWN | |
| 5402 | DIAMETER_ERROR_NOT_AUTHORIZED | 29.109 [7 |
| 5403 | DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID | • |
| | erimental Result Codes from 5404 to 5419 are reserved for the TS | S 29.109. |
| 5420 | DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION | |
| 5421 | DIAMETER_ERROR_RAT_NOT_ALLOWED | 29.272 [21] |
| 5422 | DIAMETER_ERROR_EQUIPMENT_UNKNOWN | |
| 5423 | DIAMETER_ERROR_UNKNOWN_SERVING_NODE | |
| Note: The Expe | erimental Result Codes from 5424 to 5449 are reserved for the TS | S 29.272. |
| | | |

| 5450 | DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTION | 00 070 [00] |
|----------------|--|-------------|
| 5451 | DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION | 29.273 [20] |
| 5452 | DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED | |
| Note: The Expe | erimental Result Codes from 5453 to 5469 are reserved for the TS | S 29.273. |
| 5470 | DIAMETER_ERROR _SUBSESSION | 29.215 [22] |
| Note: The Expe | erimental Result Codes from 5471 to 5489 are reserved for the TS | S 29.215. |
| 5490 | DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK | 29.173 [25] |
| Note: The Expe | erimental Result Codes from 5491 to 5509 are reserved for the TS | S 29.173. |

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

| | 1 | | | | Change history | 1 | |
|---------|-------|------------------------|-------|----------|--|----------|----------|
| Date | TSG # | TSG Doc. | CR | Rev | Subject/Comment | Old | New |
| 2004-06 | CN#24 | NP-040292 | | | Version 2.0.0 presented for information and approval | 2.0.0 | 6.0.0 |
| 2004-09 | CN#25 | NP-040401 | | | Correction of Charging application reference | 6.0.0 | 6.1.0 |
| 2004-09 | CN#25 | NP-040401 | | | Correction of the Application-Id code | 6.0.0 | 6.1.0 |
| 2004-09 | CN#25 | NP-040401 | | | Removal of User Data Request Type AVP | 6.0.0 | 6.1.0 |
| 2004-09 | CN#25 | NP-040412 | | 1 | Re-numbering of 3GPP specific AVP codes. | 6.0.0 | 6.1.0 |
| 2004-12 | CN#26 | NP-040579 | | <u> </u> | Inclusion of missing Cx AVPs | 6.1.0 | 6.2.0 |
| 2004-12 | CN#26 | NP-040580 | | 1 | Reservation of command code 310 | 6.1.0 | 6.2.0 |
| 2004-12 | CN#26 | NP-040579 | | 1 | Addition of Gmb interface | 6.1.0 | 6.2.0 |
| 2004-12 | CN#26 | NP-040600 | | 2 | Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces | 6.1.0 | 6.2.0 |
| 2004-12 | CN#26 | NP-040579 | | | Gq interface allocations | 6.1.0 | 6.2.0 |
| 2004-12 | CN#26 | NP-040579 | | | Addition of Gx interface | 6.1.0 | 6.2.0 |
| 2005-03 | CN#27 | NP-050047 | | 1 | WLAN Diameter AVP and result codes | 6.2.0 | 6.3.0 |
| | | NP-050039 | | | Allocations for Gx interface | ļ | |
| | | NP-050039 | | | Allocations for Gmb interface | ļ | |
| 0005.00 | OT#00 | NP-050039 | | | Allocations for MMS, MM10 Interface | 0.0.0 | 0.40 |
| 2005-06 | CT#28 | CP-050088 | | 4 | Gx interface allocation correction | 6.3.0 | 6.4.0 |
| 2005.00 | CT#20 | CP-050196 | | 1 | Addition of Maximum-Number-Accesses AVP | C 4 O | 0.5.0 |
| 2005-09 | CT#29 | CP-050440 | | 1 | Private identities on the Cx | 6.4.0 | 6.5.0 |
| | | CP-050310 CP-050310 | | 1 | Addition of Pr reference point to TS 29.230 Error code cleanup | { | |
| | | CP-050310 | | | Addition of Rx ref. point and renaming of Experimental Result | } | |
| | | CF-030310 | 0036 | | Codes | | |
| 2005-09 | CT#29 | CP-050317 | 0055 | | Addition of GUSS timestamp AVP | 6.5.0 | 7.0.0 |
| 2005-12 | CT#30 | CP-050624 | 0058 | | Addition of GBA-Type AVP | 7.0.0 | 7.1.0 |
| | | CP-050612 | 0063 | | Additional Gmb AVP Allocation | | |
| | | CP-050612 | | | Reservation of AVP codes for 32.299 |] | |
| | | CP-050625 | 0066 | | Management of Sh subscriptions | | |
| 2006-03 | CT#31 | CP-060073 | | | Adding data type of some of WLAN-related AVPs | 7.1.0 | 7.2.0 |
| | | CP-060084 | | | User-Data in the response to Sh-Subs-Notif | ļ | |
| | | CP-060084 | | 1 | New error indications for the Sh-Subs-Notif procedure | | |
| 2006-06 | CT#32 | CP-060302 | | | S-CSCF reselection removal | 7.2.0 | 7.3.0 |
| 2006-09 | CT#33 | CP-060417 | | 3 | New AVP Code | 7.3.0 | 7.4.0 |
| | | CP-060417 | | | Errors to be sent in response to Sh-Notif | ļ | |
| | | CP-060417 | | | Definition of specific Diameter codes for DSAI | | <u> </u> |
| 2006-12 | CT#34 | CP-060566 | | 1 | Optimization of handling of Wildcarded PSIs | 7.4.0 | 7.5.0 |
| | | CP-060562 | | | Addition of Diameter Error Code for Emergency Purposes | } | |
| | | CP-060555 | | | Allocation of new AVP codes for Gmb | ļ | |
| | | CP-060555 | | | AVP code allocations for Rf and Ro interfaces | - | |
| 2007.02 | OT#25 | CP-060566 | | | Allocation of Success Result Code Range for Gi Interface | 7.5.0 | 7.0.0 |
| 2007-03 | CT#35 | CP-070020 CP-070020 | | | C3 requested addition of new AVP code values to 3GPP TS 29.230 Allocation of new AVP code for DSAI-Tag AVP | 7.5.0 | 7.6.0 |
| | | CP-070020 | | 1 | Allocation of Thew AVP code for DSAI-Tag AVP Allocation of Experimental-Result-Code AVP for Gi Interface | { | |
| 2007-06 | CT#36 | CP-070020 CP-070318 | | 1 | Diameter application ID for the Rel-7 Rx interface | 7.6.0 | 7.7.0 |
| 2007-00 | 01#30 | CP-070318 CP-070312 | | | Experimental-Result-Codes for Gmb interface | 7.0.0 | 7.7.0 |
| | | CP-070312 | | 1 | Correction of Diameter AVP code allocation | 1 | |
| 2007-09 | CT#37 | CP-070512 | | - | Application ID for Gx protocol | 7.7.0 | 7.8.0 |
| 2007-03 | CT#37 | CP-070743 | | | AVP code reservation for 32.299 in Rel-7 | 7.8.0 | 7.9.0 |
| | 5.700 | 0. 0.0140 | 0105 | | Allocation of 3GPP specific AVP codes and Experimental Result | | 1.0.0 |
| | | | | | Codes for Gx protocol | | |
| 2007-12 | CT#38 | CP-070755 | | 4 | AVP assignments to support SIP Digest Authentication | 7.9.0 | 8.0.0 |
| 2000.00 | CT#22 | CD 000015 | 0103 | - | AVP code reservation for 32.299 in Rel-8 | 0.00 | 0.4.0 |
| 2008-03 | CT#39 | CP-080015 | | <u> </u> | Correction of reference to TS 29.140 | 8.0.0 | 8.1.0 |
| | | CP-080019 | | - | AVP code reservation for TS 32.299 in Rel-8 | { | |
| | | CP-080019 CP-080191 | | 1 | Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in | } | |
| | | UF-000191 | 0112 | [| Rel-7 | | |
| | | CP-080204 | 0113 | 1 | Correction on AVP code allocation reservation for TS 32.299 | <u> </u> | |
| 2008-06 | CT#40 | CP-080267 | | | A new Diameter Permanent Failure Code for Gx | 8.1.0 | 8.2.0 |
| 2008-09 | CT#41 | CP-080456 | 0119 | | Emergency Public User Identity Removal | 8.2.0 | 8.3.0 |
| 2008-09 | CT#41 | CP-080460 | | | Support of "Loose-Route" indication from HSS |] | |
| 2008-09 | CT#41 | CP-080460 | | 1 | STaMIP Application Id | Į | |
| 2008-09 | CT#41 | CP-080463 | 10123 | 1 | Cx Impacts of IMS Restoration Procedures (New AVP Codes | 1 | |

| ĺ | | 1 | | | Assignment) | 1 | I |
|---------|----------|------------------------|--------|----------|---|--------|--------|
| 2008-09 | CT#41 | CP-080463 | 0124 | | New AVP Code Assignment for Forking Service Restoration | 8.2.0 | 8.3.0 |
| 2008-12 | CT#42 | CP-080691 | | 2 | Diameter Protocol Codes Assignments for S6a/S6d/S13 | 8.3.0 | 8.4.0 |
| 2008-12 | CT#42 | CP-080691 | | | Diameter code assignments for 3GPP TS 29.273 | 8.3.0 | 8.4.0 |
| 2009-03 | CT#43 | CP-090044 | | | Update for ReadyForSM | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090044 | | 1 | Handling LCS Subscription Data | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090026 | | | Update for Restoration | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | | | Applds for Gxx and S9 | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090033 | | | Appld and command code for Zpn | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | | 1 | AVP codes for S9 protocol | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | | | Diameter AVP Code allocation | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | | 1 | Location of Permanent Failure result code range for the S9 application | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | | | AVPs for TS 29.273 | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | | | Error code allocation for authentication failure | 8.4.0 | 8.5.0 |
| 2009-06 | CT#44 | CP-090299 | | 4 | Update of the AVP Codes | 8.5.0 | 8.6.0 |
| | | CP-090299 | | | AVP code reservation for TS 32.299 | | |
| | | CP-090299 | | | Diameter Command Codes for S6a/S6d/S13/S13" | | |
| | ļ | | 0146 | | Removal of Requesting Node Type from AIR | ļ | |
| | | CP-090299 | | | S6b Application ID | | |
| 2009-09 | CT#45 | CP-090530 | | ļ | Allocation of Experimental-Result-Codes for S9 protocol | 8.6.0 | 8.7.0 |
| | | CP-090530 | | <u> </u> | AVP code allocation for TS 29.212 | 1 | |
| | | CP-090531 | | <u> </u> | Update of the AVP type for the User-Id | 1 | |
| | <u> </u> | CP-090531 | | <u> </u> | Trace Depth per session | | |
| 2009-09 | CT#45 | CP-090557 | | | AVP code range for charging | 8.7.0 | 9.0.0 |
| 2009-12 | CT#46 | CP-090800 | - | 1 | ICS-Flag | 9.0.0 | 9.1.0 |
| | | CP-091032 | | | From GMLC-Address to GMLC-Number | | |
| | | | 0160 | | Session-Priority AVP | 1 | |
| | | | 0163 | 2 | Introduction of SLh application related AVPs and Experimental | | |
| | | | 0.4.00 | | Result codes | | |
| | | OD 000707 | 0166 | _ | Missing AVP error codes | 1 | |
| | | CP-090797 | 0167 | 1 | Introduction of SLg application related AVPs and Application | | |
| 2010-03 | CT#47 | CP-100031 | 0150 | 1 | Identifier Wildcarded Public Identity | 9.1.0 | 9.2.0 |
| 2010-03 | C1#41 | CP-100031 | | | Correction on AVP code allocation reservation for TS 32.299 in | 9.1.0 | 9.2.0 |
| | | C1 -100034 | 0100 | ' | Rel-9 | | |
| | | CP-100046 | 0169 | 1 | AVP code allocation for 29.172 | 1 | |
| | | CP-100036 | | | GPL_U support in TS 29.109 | | |
| | | CP-100046 | | | Error codes in 29.172 for SLg | 1 | |
| | | CP-100048 | | 1 | AVPs in 29.272 for TADS support | 1 | |
| | | CP-100040 | | | Error codes in 29.272 for Unknown MME | 1 | |
| | | CP-100236 | 0176 | 4 | EPS Subcsriber State and Location Information Request | Ī | |
| | | CP-100033 | | | One time notification AVP allocation | 1 | |
| | | CP-100046 | 0181 | | Addition of the LCS-QoS-Class attribute value | | |
| | | CP-100175 | | | Introduction of the LCS-Capabilities-Sets AVP in SLh interface | | |
| 2010-06 | CT#48 | CP-100263 | 0188 | 1 | AVP Codes for PCC | 9.2.0 | 9.3.0 |
| | | | 0183 | | EPS state and location retrieval | | |
| | | CP-100287 | | | SGmb Application ID | | |
| | | CP-100277 | | | New APVs in S6a protocol | | |
| 2010-09 | CT#49 | CP-100463 | 0197 | 1 | Addition of Diameter codes and identifiers for the SLg and SLh | 9.3.0 | 9.4.0 |
| | | OD 400404 | 0400 | | interfaces | 4 | |
| 0040.40 | OT#50 | CP-100464 | | 2 | AVP Codes Allocation for PCC | 0.40 | 0.5.0 |
| 2010-12 | CT#50 | CP-100679 | | 3 | S6a Error Diagnostic | 9.4.0 | 9.5.0 |
| 2011-03 | CT#51 | CP-110051 CP-110054 | | | PDP Address correction Essential correction on the value type of the ELP Application AVPs | 9.5.0 | 9.6.0 |
| 2011-06 | CT#52 | CP-110054 CP-110349 | | 2 | | 9.6.0 | 9.7.0 |
| 2011-00 | U1#3Z | CP-110349 CP-110347 | | | Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup | 9.0.0 | 9.7.0 |
| | | CP-110347 CP-110359 | | 1 | MIPv4 security parameters on the STa and S6b interfaces | 1 | |
| 2011-09 | CT#53 | CP-110359 | | | Experimental Result Code Alignment with 29.061 | 9.7.0 | 9.8.0 |
| 2011-08 | 01#33 | CP-110552 CP-110554 | | | AVP code alignment with 29.214 | 5.7.0 | 5.0.0 |
| | | CP-110555 | | | AVP code alignment with 32.299 | 1 | |
| | | CP-110555 | 0251 | | Failure code alignment with 29.212 | 1 | |
| | | CP-110559 | | | AVP code alignment with 29.212 | 1 | |
| 2011-12 | CT#54 | CP-110775 | | | New AVP codes for MBMS IP unicast encapsulation | 9.8.0 | 9.9.0 |
| | | | 0263 | | New AVP codes for MBMS IP multicast encapsulation | 1 | |
| | | | 0269 | 1 | MME-Realm AVP code allocation and update | 1 | |
| | İ | | 0279 | 1 | Restoration of Wildcarded-IMPU AVP | 1 | |
| 2012-03 | CT#55 | CP-120025 | | | Codes Allocation for AVPs on Initial Attach | 9.9.0 | 9.10.0 |
| 2012-06 | CT#56 | CP-120219 | | | Duplicated AVP names | | 9.11.0 |
| 2012-07 | | | | | Editorial correction to history table | | 9.11.1 |
| 2012-09 | CT#57 | CP-120665 | | | GMLC-Name | | 9.12.0 |
| 2012-12 | CT#58 | CP-120716 | 0321 | 1 | AVP name modification in TS 32.299 | 9 12 0 | 9.13.0 |

History

| Document history | | | | | | |
|------------------|--------------|-------------|--|--|--|--|
| V9.1.0 | January 2010 | Publication | | | | |
| V9.2.0 | April 2010 | Publication | | | | |
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| V9.4.0 | October 2010 | Publication | | | | |
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| V9.7.0 | June 2011 | Publication | | | | |
| V9.8.0 | October 2011 | Publication | | | | |
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