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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; Stage 3".

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

| Kelease as tr | ne present aocument. |
|---------------|--|
| [1] | 3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and message contents". |
| [2] | 3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter protocol; Protocol details". |
| [3] | 3GPP TS 29.328: "IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents". |
| [4] | 3GPP TS 29.329: "Sh Interface based on the Diameter protocol; Protocol details". |
| [5] | 3GPP TS 32.299: "Telecommunication management; Charging management; Diameter charging applications". |
| [6] | 3GPP TS 29.234: "3GPP system to Wireless Local Area Network (WLAN) interworking; Stage 3". |
| [7] | 3GPP TS 29.109: "Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Stage 3". |
| [8] | 3GPP TS 29.209: "Policy control over Gq interface". |
| [9] | IETF RFC 3588: "Diameter Base Protocol". |
| [10] | IETF RFC 3589: "Diameter Command Codes for Third Generation Partnership Project (3GPP) Release 5". |
| [11] | IANA"s Enterprise-Numbers: http://www.iana.org/assignments/enterprise-numbers |
| [12] | IANA"s AAA parameters register: ftp://ftp.iana.org/assignments/aaa-parameters/ |
| [13] | 3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)". |
| [14] | 3GPP TS 32.296: "Telecommunication management; Charging management; Online Charging System (OCS): Applications and interfaces". |
| [15] | 3GPP TS 29.210: "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 (PCC);Reference points". |
| [20] | 3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces". |
| [21] | 3GPP TS 29.272: "Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol". |
| [22] | 3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point; Stage 3". |
| [23] | IETF RFC 5516: "Diameter Command Code Registration for Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)". |
| [24] | 3GPP TS 29.172: "Location Services (LCS); Evolved Packet Core (EPC) LCS Protocol (ELP) between the Gateway Mobile Location Centre (GMLC) and the Mobile Management Entity (MME); SLg interface". |
| [25] | 3GPP TS 29.173: "Location Services (LCS); Diameter-based SLh interface for Control Plane LCS". |
| [26] | 3GPP TS 29.219: "Policy and Charging Control: Spending Limit Reporting over Sy reference point". |
| [27] | 3GPP TS 29.368: "Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS)". |
| [28] | 3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications". |
| [29] | 3GPP TS 29.337: "Diameter-based T4 interface for communications with packet data networks and applications". |
| [30] | 3GPP TS 29.338: "Diameter based protocols to support SMS capable MMEs". |
| | |

3 Definitions and abbreviations

3.1 Definitions

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

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

3.2 Abbreviations

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

AVP Attribute-Value-Pair
CR Change Request
IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force
LS Liaison Statement

4 Application identifiers

The Diameter applications are identified with the application identifiers as specified in the RFC 3588 [9]. There are two kind of applications: IETF standards track applications and vendor specific applications. All application identifiers are

assigned by IANA [12]. This chapter lists the application identifiers assigned by IANA to all 3GPP Diameter applications.

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

4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

| Application identifier | Application | 3GPP TS |
|------------------------|-----------------|---------------------------|
| 16777216 | 3GPP Cx/Px | 29.228 [1] and 29.229 [2] |
| 16777217 | 3GPP Sh/Ph | 29.328 [3] and 29.329 [4] |
| 16777218 | 3GPP Re | 32.296 [14] |
| 16777219 | 3GPP Wx | 29.234 [6] |
| 16777220 | 3GPP Zn | 29.109 [7] |
| 16777221 | 3GPP Zh | 29.109 [7] |
| 16777222 | 3GPP Gq | 29.209 [8] |
| 16777223 | 3GPP Gmb | 29.061 [13] |
| 16777224 | 3GPP Gx | 29.210 [15] |
| 16777225 | 3GPP Gx over Gy | 29.210 [15] |
| 16777226 | 3GPP MM10 | 29.140 [16] |
| 16777229 | 3GPP Rx | 29.211 [17] |
| 16777230 | 3GPP Pr | 29.234 [6] |
| 16777236 | 3GPP Rx | 29.214 [18] |
| 16777238 | 3GPP Gx | 29.212 [19] |
| 16777250 | 3GPP STa | 29.273 [20] |
| 16777251 | 3GPP S6a | 29.272 [21] |
| 16777252 | 3GPP S13/S13" | 29.272 [21] |
| 16777255 | 3GPP SLg | 29.172 [24] |
| 16777264 | 3GPP SWm | 29.273 [20] |
| 16777265 | 3GPP SWx | 29.273 [20] |
| 16777266 | 3GPP Gxx | 29.212 [19] |
| 16777267 | 3GPP S9 | 29.215 [22] |
| 16777268 | 3GPP Zpn | 29.109 [7] |
| 16777272 | 3GPP S6b | 29.273 [20] |
| 16777291 | 3GPP SLh | 29.173 [25] |
| 16777292 | 3GPP SGmb | 29.061 [13] |
| 16777302 | 3GPP Sy | 29.219 [26] |
| 16777303 | 3GPP Sd | 29.212 [19] |
| 16777308 | 3GPP S7a | 29.272 [21] |
| 16777309 | 3GPP Tsp | 29.368 [27] |
| 16777310 | 3GPP S6m | 29.336 [28] |
| 16777311 | 3GPP T4 | 29.337 [29] |
| 16777312 | 3GPP S6c | 29.338 [30] |
| 16777313 | 3GPP SGd | 29.338 [30] |
| 16777318 | 3GPP S15 | 29.212 [19] |
| 16777319 | 3GPP S9a | 29.215 [22] |
| 16777320 | 3GPP S9a* | 29.215 [22] |

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] |
| 8388635 | Spending-Limit-Request/Answer | SLR/SLA | |
| 8388636 | Spending-Status-Notification- Request/Answer | SNR/SNA | 29.219 [26] |
| 8388637 | TDF-Session-Request/Answer | TSR/TSA | 29.212 [19] |
| 8388638 | Update-VCSG-Location-Request/Answer | UVR/UVA | 20 272 [24] |
| 8388642 | Cancel-VCSG-Location-Request/Answer | CVR/CVA | 29.272 [21] |
| 8388639 | Device-Action-Request/Answer | DAR/DAA | 20 260 [27] |
| 8388640 | Device-Notification-Request/Answer | DNR/DNA | 29.368 [27] |
| 8388641 | Subscriber-Information-Request/Answer | SIR/SIA | 29.336 [28] |
| 8388643 | Device-Trigger-Request/Answer | DTR/DTA | 29.337 [29] |
| 8388644 | Delivery-Report-Request/Answer | DRR/DRA | 29.337 [29] |
| 8388645 | MO-Forward-Short-Message Request/Answer | OFR/OFA | |
| 8388646 | MT-Forward-Short-Message Request/Answer | TFR/TFA | |
| 8388647 | Send-Routing-Info-for-SM- Request/Answer | SRR/SRA | 29.338 [30] |
| 8388648 | Alert-Service-Centre-Request/Answer | ALR/ALA | |
| 8388649 | Report-SM-Delivery-Status- Request/Answer | RDR/RDA | |
| 8388656 | Trigger-Establishment-Request/Answer | TER/TEA | 29.215 [30] |

6 Vendor identifier

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

6.1 3GPP"s vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

| AVP Code | Attribute Name | Data Type | Specified in the 3GPP TS |
|-------------|--|---------------------------|--------------------------|
| 100 | 3GPP-WLAN-APN-Id | OctetString | |
| 101 | 3GPP-WLAN-QoS-Filter-Rule | UTF8String | 29.234 [6] |
| 102 | 3GPP-WLAN-QoS-Filter-Support | OctetString | 1 |
| Note: | The AVP codes from 1 to 255 are reserved for backwards compatibili | ty with 3GPP RADIUS Ve | ndor Specific |
| Attribu | ites (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 | |
| 305 | WLAN-Access | Enumerated | |
| 306 | WLAN- 3GPP-IP-Access | Enumerated | |
| | APN-Authorized | Grouped | |
| 308 | APN-Id | | |
| 309 | APN-Barring-Type | Enumerated | 20 224 [6] |
| | WLAN-Direct-IP-Access | Enumerated | 29.234 [6] |
| 311 | Session-Request-Type | Enumerated | |
| | Routing-Policy | IPFilterRule | |
| | Max-Requested-Bandwidth | OctetString | |
| | Charging-Characteristics | Integer | 1 |
| | Charging-Nodes | Grouped | 1 |
| | Primary-OCS-Charging-Function-Name | DiameterIdentity | |
| | Secondary-OCS-Charging-Function-Name | DiameterIdentity | |
| | 3GPP-AAA-Server-Name | DiameterIdentity | |
| | Maximum-Number-Accesses | Unsigned32 | |
| | The AVP codes from 320 to 399 are reserved for TS 29.234 | , , | |
| | GBA-UserSecSettings | OctetString | |
| 401 | Transaction-Identifier | OctetString | |
| 402 | NAF-Hostname | OctetString | - |
| | GAA-Service-Identifier | OctetString | |
| 404 | Key-ExpiryTime ME-Key-Material | Time OctetString | - |
| 406 | UICC-Key-Material | OctetString | - |
| | GBA_U-Awareness-Indicator | Enumerated | 1 |
| 408 | BootstrapInfoCreationTime | Time | |
| | GUSS-Timestamp | Time | |
| | GBA-Type | Enumerated | 29.109 [7] |
| 411 | UE-Id | OctetString | <u> </u> |
| 412 | UE-Id-Type UICC-App-Label | Enumerated OctetString | |
| | UICC-ME | Enumerated | 1 |
| | Requested-Key-Lifetime | Time | - |
| | Private-Identity-Request | Enumerated | |
| 417 | GBA-Push-Info | OctetString |] |
| | NAF-SA-Identifier | OctetString | |
| | Security-Feature-Request | OctetString | - |
| | Security-Feature-Response | OctetString | |
| | The AVP codes from 421 to 499 are reserved for TS 29.109 | | 1 |
| | Abort-Cause | Enumerated | - |
| | Access-Network-Charging-Address | Address | 4 |
| | Access-Network-Charging-Identifier | Grouped | |
| | Access-Network-Charging-Identifier-Value | OctetString | 29.209 [8], |
| | AF-Application-Identifier | OctetString | 29.211 [17] , |
| | AF-Charging-Identifier | OctetString | 29.214 [18] |
| | Authorization-Token | OctetString | _ |
| | Flow-Description | IPFilterRule | _ |
| 508 | Flow-Grouping | Grouped | |

| | <u></u> | | |
|------------|---|-------------|------------|
| | Flow-Number | Unsigned32 | |
| | Flows | Grouped | |
| | Flow-Status | Enumerated | |
| | Flow-Usage | Enumerated | |
| | Specific-Action | Enumerated | |
| | Max-Requested-Bandwidth | Unsigned32 | |
| | Max-Requested-Bandwidth-DL | Unsigned32 | |
| | Max-Requested-Bandwidth-UL | Unsigned32 | |
| | Media-Component-Description | Grouped | |
| | Media-Component-Number | Unsigned32 | |
| | Media-Sub-Component AVP | Grouped | |
| | Media-Type | Enumerated | |
| | RR-Bandwidth | Unsigned32 | |
| | RS-Bandwidth RS-Bandwidth | Unsigned32 | |
| | SIP-Forking-Indication | Enumerated | |
| | Codec-Data | OctetString | |
| | Service-URN | OctetString | |
| | Acceptable-Service-Info | Grouped | |
| | Service-Info-Status | Enumerated | |
| | MPS-Identifier | OctetString | |
| | AF-Signalling-Protocol | Enumerated | |
| | Sponsored-Connectivity-Data | Grouped | |
| | Sponsor-Identity | OctetString | |
| | Application-Service-Provider-Identity | OctetString | |
| | Rx-Request-Type | Enumerated | |
| | Min-Requested-Bandwidth-DL | Unsigned32 | |
| | Min-Requested-Bandwidth-UL | Unsigned32 | |
| | Required-Access-Info | Enumerated | |
| | IP-Domain-Id | OctetString | |
| | The AVP codes from 538 to 599 are reserved for TS 29.209, TS 29.2 | | |
| | Visited-Network-Identifier | OctetString | |
| | Public-Identity | UTF8String | |
| | Server-Name | UTF8String | |
| | Server-Capabilities | Grouped | |
| | Mandatory-Capability | Unsigned32 | |
| | Optional-Capability | Unsigned32 | |
| | User-Data | OctetString | |
| | SIP-Number-Auth-Items | Unsigned32 | |
| | SIP-Authentication-Scheme | UTF8String | |
| | SIP-Authenticate | OctetString | |
| | SIP-Authorization | OctetString | |
| | SIP-Authentication-Context | OctetString | |
| | SIP-Auth-Data-Item | Grouped | |
| | SIP-Item-Number | Unsigned32 | |
| | Server-Assignment-Type | Enumerated | |
| | Deregistration-Reason | Grouped | |
| | Reason-Code | Enumerated | |
| | Reason-Info | UTF8String | 29.229 [2] |
| | Charging-Information | Grouped | |
| | Primary-Event-Charging-Function-Name | DiameterURI | |
| | Secondary-Event-Charging-Function-Name | DiameterURI | |
| | Primary-Charging-Collection-Function-Name | DiameterURI | |
| | Secondary-Charging-Collection-Function-Name | DiameterURI | |
| | User-Authorization-Type | Enumerated | |
| | User-Data-Already-Available | Enumerated | |
| | Confidentiality-Key | OctetString | |
| | Integrity-Key | OctetString | |
| | User-Data-Request-Type | Enumerated | |
| | Supported-Features | Grouped | |
| | Feature-List-ID | Unsigned32 | |
| | Feature-List | Unsigned32 | |
| | Cupported Applications | Grouped | |
| | Supported-Applications | | |
| 632 | Associated-Identities | Grouped | |
| 632 633 | | | |

| | SIP-Digest-Authenticate | Grouped | |
|-----|---|-------------|------------|
| | Wildcarded-IMPU | UTF8String | |
| | UAR-Flags | Unsigned32 | |
| | Loose-Route-Indication | Enumerated | |
| | SCSCF-Restoration-Info | Grouped | |
| 640 | | OctetString | |
| 641 | Contact | OctetString | |
| 642 | Subscription-Info | Grouped | |
| 643 | Call-ID-SIP-Header | OctetString | |
| 644 | From-SIP-Header | OctetString | |
| 645 | To-SIP-Header | OctetString | |
| | Record-Route | OctetString | |
| | Associated-Registered-Identities | Grouped | |
| | Multiple-Registration-Indication | Enumerated | |
| | Restoration-Info | Grouped | |
| | Session-Priority | Enumerated | |
| | | | |
| | Identity-with-Emergency-Registration | Grouped | |
| | Priviledged-Sender-Indication | Enumerated | |
| | LIA-Flags | Unsigned32 | |
| | The AVP codes from 654 to 699 are reserved for TS 29.229. | | |
| | User-Identity | Grouped | |
| | MSISDN | OctetString | |
| | User-Data User-Data | OctetString | |
| | Data-Reference | Enumerated | |
| 704 | Service-Indication | OctetString | |
| 705 | Subs-Req-Type | Enumerated | |
| 706 | Requested-Domain | Enumerated | |
| | Current-Location | Enumerated | |
| | Identity-Set | Enumerated | |
| | Expiry-Time | Time | |
| | Send-Data-Indication | Enumerated | |
| | DSAI-Tag | OctetString | 29.329 [4] |
| | One-Time-Notification | Enumerated | 23.323 [4] |
| | Requested-Nodes | Unsigned32 | |
| | Serving-Node-Indication | Enumerated | |
| | | | |
| | Repository-Data-ID | Grouped | |
| | Sequence-Number | Unsigned32 | |
| | Pre-paging-Supported | Enumerated | |
| | Local-Time-Zone-Indication | Enumerated | |
| | UDR-Flags | Unsigned32 | |
| | Call-Reference-Info | Grouped | |
| | Call-Reference-Number | OctetString | |
| | AS-Number | OctetString | |
| | The AVP codes from 723 to 799 are reserved for TS 29.329. | | |
| | The AVP codes from 800 to 822 are reserved for TS 32.299. | | |
| | Event-Type | Grouped | |
| | SIP-Method | UTF8String | |
| 825 | Event | UTF8String | |
| 826 | Content-Type | UTF8String | |
| | Content-Length | Unsigned32 | |
| | Content-Disposition | UTF8String | |
| | Role-of-Node | Enumerated | |
| | User-Session-Id | UTF8String | |
| | Calling-Party-Address | UTF8String | |
| | Called-Party-Address | UTF8String | |
| | Time-Stamps | Grouped | 32.299 [5] |
| | SIP-Request-Timestamp | Time | |
| | | Time | |
| | SIP-Response-Timestamp | | |
| | Application-Server | UTF8String | |
| | Application-provided-called-party-address | UTF8String | |
| | Inter-Operator-Identifier | Grouped | |
| | Originating-IOI | UTF8String | |
| | Terminating-IOI | UTF8String | |
| | IMS-Charging-Identifier | UTF8String | |
| 842 | SDP-Session-Description | UTF8String | |
| | | | |

| | SDP-Media-Component | Grouped | |
|-----|---|--------------------------|-------------|
| | SDP-Media-Name | UTF8String | |
| | 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 | |
| | Associated-URI | UTF8String | |
| | Charged-Party | UTF8String | |
| | PoC-Controlling-Address | UTF8String | |
| | PoC-Group-Name | UTF8String | |
| | Cause | Grouped | |
| | Cause-Code | Integer32 | |
| | Node-Functionality | Enumerated | |
| | Service-Specific-Data | UTF8String | |
| | Originator | Enumerated | |
| | PS-Furnish-Charging-Information | Grouped | |
| | PS-Free-Format-Data | OctetString | |
| | PS-Append-Free-Format-Data | Enumerated | |
| | Time-Quota-Threshold | Unsigned32 | |
| | Volume-Quota-Threshold | Unsigned32 | |
| | Trigger-Type | Enumerated | |
| | Quota-Holding-Time | Unsigned32 | |
| | Reporting-Reason | Enumerated | |
| | Service-Information | Grouped | |
| | PS-Information | Grouped | |
| | WLAN-Information | Grouped | |
| | IMS-Information | Grouped | |
| | MMS-Information LCS-Information | Grouped | |
| | PoC-Information | Grouped | |
| | MBMS-Information | Grouped | |
| | | Grouped | |
| | Quota-Consumption-Time | Unsigned32 | |
| | Media-Initiator-Flag PoC-Server-Role | Enumerated Enumerated | |
| | PoC-Session-Type | Enumerated | |
| | 7 1 | | |
| | Number-Of-Participants Originator-Address | Unsigned32 Grouped | |
| | Participants-Involved | UTF8String | |
| | Expires | Unsigned32 | |
| | Message-Body | Grouped | |
| | WAG-Address | Address | |
| | WAG-Address WAG-PLMN-Id | OctetString | |
| | WLAN-Radio-Container | Grouped | |
| | WLAN-Radio-Container WLAN-Technology | Unsigned32 | |
| | WLAN-Technology WLAN-UE-Local-IPAddress | Address | |
| | PDG-Address | Address | |
| | PDG-Address PDG-Charging-Id | Unsigned32 | |
| | Address-Data | UTF8String | |
| | Address-Data Address-Domain | Grouped | |
| | Address-Type | Enumerated | |
| 033 | ruuless- i ype | Liiuiiitialtu | |
| 900 | TMGI | OctectString | |
| | Required-MBMS-Bearer-Capabilities | UTF8String | |
| | MBMS-StartStop-Indication | Enumerated | |
| | MBMS-StartStop-Indication MBMS-Service-Area | OctectString | 29.061 [13] |
| | MBMS-Session-Duration | Unsigned32 | 23.001 [13] |
| | Alternative-APN | UTF8String | |
| | MBMS-Service-Type | Enumerated | |
| 900 | INDINO-OFINICE- LYPE | Lituitielateu | |

| 907 MBMS-2G-3G-Indicator | Enumerated | |
|--|--------------------------|-------------|
| 908 MBMS-Session-Identity | OctetString | |
| 909 RAI | UTF8String | |
| 910 Additional-MBMS-Trace-Info | OctetString | |
| 911 MBMS-Time-To-Data-Transfer | Unsigned32 | |
| 912 MBMS-Session-Identity-Repetition-Number | Unsigned32 | |
| 913 MBMS-Required-QoS | UTF8String | |
| 914 MBMS-Counting-Information | Enumerated | |
| | | |
| 915 MBMS-User-Data-Mode-Indication | Enumerated | |
| 916 MBMS-GGSN-Address | UTF8String | |
| 917 MBMS-GGSN-IPv6-Address | UTF8String | |
| 918 MBMS-BMSC-SSM-IP-Address | UTF8String | |
| 919 MBMS-BMSC-SSM-IPv6-Address | UTF8String | |
| 920 MBMS-Flow-Identifier | OctetString | |
| 921 CN-IP-Multicast-Distribution | Enumerated | |
| 922 MBMS-HC-Indicator | Enumerated | |
| | | |
| 923 MBMS-Access-Indicator | Enumerated | |
| 924 MBMS-GW-SSM-IP-Address | OctetString | |
| 925 MBMS-GW-SSM-IPv6-Address | OctetString | |
| 926 MBMS-BMSC-SSM-UDP-Port | OctetString | |
| 927 MBMS-GW-UDP-Port | OctetString | |
| 928 MBMS-GW-UDP-Port-Indicator | Enumerated | |
| 929 MBMS-Data-Transfer-Start | Unsigned64 | |
| 930 MBMS-Data-Transfer-Stop | Unsigned64 | |
| Note: The AVP codes from 929 to 999 are reserved for TS 29.061 | i onsignedo 4 | |
| | Factors a sectoral | |
| 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 | 29.212 [19] |
| 1022 Access-Network-Charging-Identifier-Gx | Grouped | r1 |
| 1023 Bearer-Control-Mode | Enumerated | |
| 1024 Network-Request-Support | Enumerated | |
| 1025 Guaranteed-Bitrate-DL | Unsigned32 | |
| 1026 Guaranteed-Bitrate-UL | Unsigned32 | |
| 1027 IP-CAN-Type | Enumerated | |
| 1028 QoS-Class-Identifier | Enumerated | |
| 1029 QoS-Negotiation | - | |
| | Enumerated | |
| 1030 QoS-Upgrade | Enumerated | |
| 1031 Rule-Failure-Code | Enumerated | |
| 1032 RAT-Type | Enumerated | |
| 1033 Event-Report-Indication | Grouped | |
| 1034 Allocation-Retention-Priority | Grouped | |
| 1035 CoA-IP-Address | Address | |
| 1036 Tunnel-Header-Filter | IPFilterRule | |
| 1037 Tunnel-Header-Length | Unsigned32 | |
| 1037 Tunnel-Information | Grouped | |
| | | |
| 1039 CoA-Information | Grouped | |
| 1040 APN-Aggregate-Max-Bitrate-DL | Unsigned32 | |
| 1041 APN-Aggregate-Max-Bitrate-UL | Unsigned32 | |
| | | |

| 4040 Develidation Time | Time - | |
|---|--------------------------|-------------|
| 1042 Revalidation-Time | Time | |
| 1043 Rule-Activation-Time | Time | |
| 1044 Rule-DeActivation-Time | Time | |
| 1045 Session-Release-Cause | Enumerated | |
| 1046 Priority-Level | Unsigned32 | |
| 1047 Pre-emption-Capability | Enumerated | |
| 1048 Pre-emption-Vulnerability | Enumerated | |
| 1049 Default-EPS-Bearer-QoS | Grouped | |
| 1050 AN-GW-Address | Address | |
| 1051 QoS-Rule-Install | Grouped | |
| | | |
| 1052 QoS-Rule-Remove | Grouped | |
| 1053 QoS-Rule-Definition | Grouped | |
| 1054 QoS-Rule-Name | OctetString | |
| 1055 QoS-Rule-Report | Grouped | |
| 1056 Security-Parameter-Index | OctetString | |
| 1057 Flow-Label | OctetString | |
| 1058 Flow-Information | Grouped | |
| 1059 Packet-Filter-Content | IPFilterRule | |
| 1060 Packet-Filter-Identifier | OctetString | |
| 1061 Packet-Filter-Information | Grouped | |
| | | |
| 1062 Packet-Filter-Operation | Enumerated | |
| 1063 Resource-Allocation-Notification | Enumerated | |
| 1064 Session-Linking-Indicator | Enumerated | |
| 1065 PDN-Connection-ID | OctetString | |
| 1066 Monitoring-Key | OctetString | |
| 1067 Usage-Monitoring-Information | Grouped | |
| 1068 Usage-Monitoring-Level | Enumerated | |
| 1069 Usage-Monitoring-Report | Enumerated | |
| 1070 Usage-Monitoring-Support | Enumerated | |
| 1071 CSG-Information-Reporting | Enumerated | |
| | | |
| 1072 Packet-Filter-Usage | Enumerated | |
| 1073 Charging-Correlation-Indicator | Enumerated | |
| 1074 QoS-Rule-Base-Name | UTF8String | |
| 1075 Routing-Rule-Remove | Grouped | |
| 1076 Routing-Rule-Definition | Grouped | |
| 1077 Routing-Rule-Identifier | OctetString | |
| 1078 Routing-Filter | Grouped | |
| 1079 Routing-IP-Address | Address | |
| 1080 Flow-Direction | Enumerated | |
| 1081 Routing-Rule-Install | Grouped | |
| 1085 Redirect-Information | Grouped | |
| | | |
| 1086 Redirect- Support | Enumerated | |
| 1087 TDF-Information | Grouped | |
| 1088 TDF-Application-Identifier | OctetString | |
| 1089 TDF-Destination-Host | DiameterIdentity | |
| 1090 TDF-Destination-Realm | DiameterIdentity | |
| 1091 TDF-IP-address | Address | |
| 1092 ADC-Rule-Install | Grouped | |
| 1093 ADC-Rule-Remove | Grouped | |
| 1094 ADC-Rule-Definition | Grouped | |
| 1095 ADC-Rule-Base-Name | UTF8String | |
| 1095 ADC-Rule-Base-Name | OctetString | |
| | | |
| 1097 ADC-Rule-Report | Grouped | |
| 1098 Application-Detection-Information | Grouped | |
| 1099 PS-to-CS-Session-Continuity | Enumerated | |
| Note: The AVP codes from 1082 to 1084 are reserved for TS 29.212 | | |
| 1100 Served-User-Identity | Groupe | |
| I101 VASP-ID | UTF8Str | |
| 1102 VAS-ID | UTF8String | |
| I103 Trigger-Event | Enumerated | |
| 1104 Sender-Address | UTF8String | 29.140 [16 |
| 1105 Initial-Recipient-Address | Grouped | 20.1 10 [10 |
| | Grouped | |
| 1106 Pacult Paciniant Address | | |
| | | |
| 1106 Result-Recipient-Address 1107 Sequence-Number 1108 Recipient-Address | Unsigned32 UTF8String | |

| 1110 | | | |
|--|--------------------------------|-------------|------------|
| 1111 Delivery-Report | 1109 Routeing-Address | UTF8String | |
| | | | |
| 1113 Sender-Visibility | | | |
| 1114 Service-Key | | | |
| 1115 Status | | | |
| 1116 Status | | | |
| 1117 Status-Code | | | |
| 1118 Status-Text UTF8String | | | |
| Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 | | | |
| 1200 Domain-Name | | UTF8Stillig | |
| 1201 Recipient-Address Grouped | | LITESString | |
| 1203 JMM-Content-Type | | | |
| 1203 MM-Content-Type | | | |
| 1204 Type-Number | | | |
| 1205 Additional-Type-Information | | | |
| 1206 Content-Size Unsigned32 1207 Additional-Content-Information Grouped 1208 Addressee-Type Enumerated 1209 Priority Enumerated 1210 Message-ID UTF8String 1211 Message-ID UTF8String 1211 Message-Size Unsigned32 1213 Message-Size Unsigned32 1213 Message-Class Grouped 1214 Class-Identifier Enumerated 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1217 Adaptations Enumerated 1218 Applic-ID UTF8String 1219 Mux-Applic-Info UTF8String 1219 Mux-Applic-Info UTF8String 1210 Content-Class Enumerated 1212 DRM-Content Enumerated 1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTF8String 1224 File-Repair-Supported Enumerated 1225 MBMS-User-Service-Type Enumerated 1226 Unit-Quota-Threshold Unsigned32 1227 PDP-Address Address Address 1228 GSR-Address Address Address 1229 PoC-Session-Id UTF8String 1231 LCS-Client-Dialed-By-MS UTF8String UTF8String 1231 LCS-Client-Dialed-By-MS UTF8String UTF8String 1231 LCS-Client-Dialed-By-MS UTF8String UTF8String | | | |
| 1207 Additional-Content-Information Grouped | | | |
| Addressee-Type | | | |
| | | | |
| Message-ID | | | |
| Message-Type | | | |
| 1213 Message-Size | | | |
| 1213 Message-Class Grouped Enumerated 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1217 Adaptations Enumerated Enumerated 1218 Applic-ID UTF8String 1219 Aux-Applic-Info UTF8String 1219 Aux-Applic-Info UTF8String 1219 Content-Class Enumerated Enumerated 1220 Content-Class Enumerated Enumerated 1221 DRM-Content Enumerated Enumerated 1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTF8String 1224 File-Repair-Supported Enumerated 1225 MBM-Suer-Service-Type Enumerated 1225 MBM-Suer-Service-Type Enumerated 1226 Unit-Quota-Threshold Unsigned32 Address 1229 POF-Address Address Address Address 1229 POF-Address Address Address Address 1229 POF-Session-Id UTF8String 1231 LCS-APN UTF8String 1231 LCS-APN UTF8String 1231 LCS-Glient-Id Grouped Grouped 1232 LCS-Client-External-ID UTF8String 1233 LCS-Client-External-ID UTF8String 1236 LCS-Data-Coding-Scheme UTF8String 1238 LCS-Name-String UTF8String 1238 LCS-Name-String UTF8String 1238 LCS-Requestor-Id-String UTF8String 1241 LCS-Client-External-ID UTF8String 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OctetString UTF8String 1244 Location-Type Grouped 1245 Positioning-Data UTF8String 1246 WLAN-Session-Id UTF8String 1246 WLAN-Session-Id UTF8String 1246 WLAN-Session-Id UTF8String 1246 WLAN-Session-Id UTF8String 1248 WMBox-Storage-Requested Enumerated Enumerated 1248 MMBox-Storage-Requested Enumerated Enumerated 1248 MMBox-Storage-Requested Enumerated Enumerated 1249 Port-Context-Type Enumerated Enumerated 1240 Called-Asserted-Identity UTF8String 1251 Requested-Party-Address UTF8String 1252 PoC-User-Role Grouped 1250 Called-Asserted-Identity UTF8String 1251 Requested-Party-Address UTF8String 1252 PoC-User-Role Grouped 12 | | | |
| 1214 Class-Identifier | | | |
| 1216 Delivery-Report-Requested | | | |
| Applic-ID UTF8String | 1215 Token-Text | UTF8String | |
| Applic-ID UTF8String | 1216 Delivery-Report-Requested | | |
| 1219 | 1217 Adaptations | Enumerated | |
| 1220 Content-Class Enumerated 1221 DRM-Content Enumerated 1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTF8String 1224 File-Repair-Supported Enumerated 1225 MBMS-User-Service-Type Enumerated 1226 Unit-Quota-Threshold Unisigned32 1227 PDP-Address Address 1229 PoC-Session-Id UTF8String 1230 Deferred-Location-Even-Type UTF8String 1231 LCS-APN UTF8String 1232 LCS-Client-Dialed-By-MS UTF8String 1233 LCS-Client-Dialed-By-MS UTF8String 1234 LCS-Client-Dialed-By-MS UTF8String 1235 LCS-Client-Indicator UTF8String 1236 LCS-Data-Coding-Scheme UTF8String 1237 LCS-Requestor-Id Grouped 1238 LCS-Requestor-Id Grouped 1240 LCS-Requestor-Id-String UTF8String 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OctetString 1243 LCS-Requestor-Id-String UTF8String 1244 LCS-Client-Type Enumerated 1245 Positioning-Data UTF8String 1246 WLAN-Session-Id UTF8String 1247 PDP-Context-Type Enumerated 1248 MMBNS-Storage-Requested Enumerated 1249 Service-Specific-Info Grouped 1250 Called-Asserted-Identity UTF8String 1251 Requested-Party-Address UTF8String 1252 PoC-User-Role UTF8String 1253 PoC-User-Role UTF8String 1254 Positioning-Data UTF8String 1255 PoC-User-Role UTF8String 1256 PoC-User-Role UTF8String 1257 PoC-User-Role UTF8String 1258 PoC-User-Role UTF8String 1259 PoC-User-Role UTF8String 1250 PoC-User-Role UTF8String 1251 Requested-Party-Address UTF8String 1252 PoC-User-Role UTF8String 1253 PoC-User-Role UTF8String 1254 PoSiting-Party-Address UTF8String 1255 PoC-User-Role UTF8String 1256 PoC-User-Role UTF8String 1257 PoC-User-Role UTF8String 1258 PoC-User-Role UTF8String 1259 PoC-User-Role UTF8String 1250 PoC-User-Role UTF8String | | UTF8String | |
| 1221 DRM-Content | | | |
| 1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTRString 1224 File-Repair-Supported Enumerated 1225 MBMS-User-Service-Type Enumerated 1226 Unit-Quota-Threshold Unsigned32 1227 PDP-Address Address 1228 SGSN-Address Address 1229 POC-Session-Id UTRString 1230 Deferred-Location-Even-Type UTRString 1231 LCS-APN UTRString 1232 LCS-Client-Id Grouped 1233 LCS-Client-Dialed-By-MS UTRString 1234 LCS-Client-External-ID UTRString 1235 LCS-Client-Name Grouped 1236 LCS-Data-Coding-Scheme UTRString 1237 LCS-Pormat-Indicator Enumerated 1238 LCS-Name-String UTRString 1239 LCS-Requestor-Id-String UTRString 1240 LCS-Requestor-Id-String UTRString 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OctetString 1243 Location-Estimate OctetString 1244 Location-Type Enumerated 1245 Positioning-Data UTRString 1246 WLAN-Session-Id UTRString 1247 PDP-Context-Type Enumerated 1248 WMBox-Storage-Requested Enumerated 1249 Service-Specific-Info Grouped 1250 Called-Asserted-Identity UTRString 1251 Requested-Party-Address UTRString 1252 PoC-User-Role Grouped 1251 Requested-Party-Address UTRString 1252 PoC-User-Role Grouped 1252 PoC-User-Role Grouped 1253 LCS-Pate-Party-Address UTRString 1254 Requested-Party-Address UTRString 1255 PoC-User-Role Grouped 1256 PoC-User-Role Grouped 1257 Grouped UTRString UTRString 1258 PoC-User-Role Grouped 1259 PoC-User-Role Grouped 1250 Grouped UTRString 1251 Requested-Party-Address UTRString 1252 PoC-User-Role Grouped 1254 Location-Party-Address UTRString 1255 PoC-User-Role Grouped 1250 Grouped UTRString UTRString 1251 Requested-Party-Address UTRString 1251 Requested-Party-Address UTRString 1251 Req | | Enumerated | |
| 1223 Reply-Applic-ID | | | |
| 1224 File-Repair-Supported Enumerated 1225 MBMS-User-Service-Type Enumerated 1226 Unit-Quota-Threshold Unsigned32 1227 PDP-Address Address Address Address Address 1228 SGSN-Address Address Address 1229 PoC-Session-Id UTF8String UTF8String 1230 Deferred-Location-Even-Type UTF8String 1231 LCS-APN UTF8String 1232 LCS-Client-Id Grouped UTF8String 1233 LCS-Client-Dialed-By-MS UTF8String 1234 LCS-Client-Dialed-By-MS UTF8String 1236 LCS-Client-Name Grouped 1236 LCS-Client-Name Grouped 1237 LCS-Format-Indicator Enumerated 1238 LCS-Requestor-Id Grouped 1238 LCS-Requestor-Id Grouped 1240 LCS-Requestor-Id-String UTF8String 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OctetString UTF8String 1243 Location-Estimate OctetString 1244 Location-Estimate OctetString 1245 Positioning-Data UTF8String UTF8String 1246 WLAN-Session-Id UTF8String UTF8String 1247 PDP-Context-Type Enumerated 1248 WMBox-Storage-Requested Enumerated 1249 Service-Specific-Info Grouped 1250 Called-Asserted-Identity UTF8String 1251 Requested-Party-Address UTF8String 1252 POC-User-Role Grouped 1255 POC-User-Role Grouped Grouped 1255 POC-User-Role Grouped Grouped 1255 POC-User-Role Grouped Gr | | | |
| 1225 MBMS-User-Service-Type Enumerated 1226 Unit-Quota-Threshold Unsigned32 1227 PDP-Address Address 1228 SGSN-Address Address 1229 POC-Session-Id UTF8String 1230 Deferred-Location-Even-Type UTF8String 1231 LCS-Client-Location-Even-Type 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-Requestor-Id-String UTF8String 1239 LCS-Requestor-Id-String UTF8String 1240 LCS-Requestor-Id-String UTF8String 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OcteString 1243 Location-Estimate OcteString 1244 Location-Type Enumerated 1245 Positioning-Data UTF8String 1246 WLAN-Session-Id UTF8String 1247 PDP-Context-Type Enumerated 1248 Service-Specific-Info Grouped 1250 Called-Asserted-Identity UTF8String 1251 Requested-Party-Address UTF8String 1252 POC-User-Role Grouped 1255 PoC-User-Role Grouped 1256 Grouped UTF8String 1257 POC-User-Role Grouped 1258 Grouped UTF8String 1251 Requested-Party-Address UTF8String 1251 Requested-Party-Address UTF8String 1252 POC-User-Role Grouped 1250 Grouped UTF8String 1251 Requested-Party-Address UTF8String 1252 POC-User-Role Grouped | | | |
| 1226 Unit-Quota-Threshold | | | |
| 1227 PDP-Address | | | |
| 1228 GSSN-Address Address 1229 PoC-Session-Id UTF8String 1230 Deferred-Location-Even-Type UTF8String 1231 LCS-APN UTF8String 1232 LCS-Client-Id Grouped 1233 LCS-Client-Dialed-By-MS UTF8String 1234 LCS-Client-External-ID UTF8String 1235 LCS-Client-Name Grouped 1236 LCS-Data-Coding-Scheme UTF8String 1237 LCS-Format-Indicator Enumerated 1238 LCS-Name-String UTF8String 1239 LCS-Requestor-Id Grouped 1240 LCS-Requestor-Id-String UTF8String 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OctetString 1243 Location-Estimate OctetString 1244 Location-Estimate OctetString 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 1254 PoS-User-Role Grouped 1255 PoC-User-Role Grouped 1256 Grouped Grouped Grouped 1257 PoC-User-Role Grouped Grouped 1258 PoC-User-Role Grouped Grouped Grouped 1250 PoC-User-Role Grouped Groupe | | | 32.299 [5] |
| 1239 PoC-Session-Id UTF8String 1231 LCS-APN UTF8String 1232 LCS-Client-Id Grouped UTF8String 1233 LCS-Client-Id Grouped UTF8String 1234 LCS-Client-Dialed-By-MS UTF8String 1234 LCS-Client-External-ID UTF8String 1235 LCS-Client-External-ID UTF8String UTF8String 1236 LCS-Data-Coding-Scheme UTF8String UTF8String 1237 LCS-Format-Indicator Enumerated 1238 LCS-Name-String UTF8String UTF8String 1239 LCS-Requestor-Id Grouped 1240 LCS-Requestor-Id-String UTF8String UTF8String 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OctetString 1243 Location-Estimate OctetString 1244 Location-Type Enumerated 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 UTF8String UTF8String 1252 POC-U | | | [-] |
| 1230 Deferred-Location-Even-Type UTF8String 1231 LCS-APN UTF8String 1232 LCS-Client-Id Grouped 1233 LCS-Client-Dialed-By-MS UTF8String 1234 LCS-Client-External-ID UTF8String 1235 LCS-Client-Name Grouped 1236 LCS-Data-Coding-Scheme UTF8String 1237 LCS-Format-Indicator Enumerated 1238 LCS-Name-String UTF8String 1239 LCS-Requestor-Id Grouped 1240 LCS-Requestor-Id-String UTF8String 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OctetString 1243 Location-Estimate-Type Enumerated 1244 Location-Type Grouped 1245 Positioning-Data UTF8String 1246 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 | | | |
| 1231 LCS-APN | | | |
| 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 | | | |
| 1233LCS-Client-Dialed-By-MSUTF8String1234LCS-Client-External-IDUTF8String1235LCS-Client-NameGrouped1236LCS-Data-Coding-SchemeUTF8String1237LCS-Format-IndicatorEnumerated1238LCS-Name-StringUTF8String1239LCS-Requestor-IdGrouped1240LCS-Requestor-Id-StringUTF8String1241LCS-Client-TypeEnumerated1242Location-EstimateOctetString1243Location-Estimate-TypeEnumerated1244Location-TypeGrouped1245Positioning-DataUTF8String1246WLAN-Session-IdUTF8String1247PDP-Context-TypeEnumerated1248MMBox-Storage-RequestedEnumerated1249Service-Specific-InfoGrouped1250Called-Asserted-IdentityUTF8String1251Requested-Party-AddressUTF8String1252PoC-User-RoleGrouped | | | |
| 1234LCS-Client-External-IDUTF8String1235LCS-Client-NameGrouped1236LCS-Data-Coding-SchemeUTF8String1237LCS-Format-IndicatorEnumerated1238LCS-Name-StringUTF8String1239LCS-Requestor-IdGrouped1240LCS-Requestor-Id-StringUTF8String1241LCS-Client-TypeEnumerated1242Location-EstimateOctetString1243Location-Estimate-TypeEnumerated1244Location-TypeGrouped1245Positioning-DataUTF8String1246WLAN-Session-IdUTF8String1247PDP-Context-TypeEnumerated1248MMBox-Storage-RequestedEnumerated1249Service-Specific-InfoGrouped1250Called-Asserted-IdentityUTF8String1251Requested-Party-AddressUTF8String1252PoC-User-RoleGrouped | | | |
| 1235 LCS-Client-NameGrouped1236 LCS-Data-Coding-SchemeUTF8String1237 LCS-Format-IndicatorEnumerated1238 LCS-Name-StringUTF8String1239 LCS-Requestor-IdGrouped1240 LCS-Requestor-Id-StringUTF8String1241 LCS-Client-TypeEnumerated1242 Location-EstimateOctetString1243 Location-Estimate-TypeEnumerated1244 Location-TypeGrouped1245 Positioning-DataUTF8String1246 WLAN-Session-IdUTF8String1247 PDP-Context-TypeEnumerated1248 MMBox-Storage-RequestedEnumerated1249 Service-Specific-InfoGrouped1250 Called-Asserted-IdentityUTF8String1251 Requested-Party-AddressUTF8String1252 PoC-User-RoleGrouped | | | |
| 1236LCS-Data-Coding-SchemeUTF8String1237LCS-Format-IndicatorEnumerated1238LCS-Name-StringUTF8String1239LCS-Requestor-IdGrouped1240LCS-Requestor-Id-StringUTF8String1241LCS-Client-TypeEnumerated1242Location-EstimateOctetString1243Location-Estimate-TypeEnumerated1244Location-TypeGrouped1245Positioning-DataUTF8String1246WLAN-Session-IdUTF8String1247PDP-Context-TypeEnumerated1248MMBox-Storage-RequestedEnumerated1249Service-Specific-InfoGrouped1250Called-Asserted-IdentityUTF8String1251Requested-Party-AddressUTF8String1252PoC-User-RoleGrouped | | | |
| 1237 LCS-Format-IndicatorEnumerated1238 LCS-Name-StringUTF8String1239 LCS-Requestor-IdGrouped1240 LCS-Requestor-Id-StringUTF8String1241 LCS-Client-TypeEnumerated1242 Location-EstimateOctetString1243 Location-Estimate-TypeEnumerated1244 Location-TypeGrouped1245 Positioning-DataUTF8String1246 WLAN-Session-IdUTF8String1247 PDP-Context-TypeEnumerated1248 MMBox-Storage-RequestedEnumerated1249 Service-Specific-InfoGrouped1250 Called-Asserted-IdentityUTF8String1251 Requested-Party-AddressUTF8String1252 PoC-User-RoleGrouped | | | |
| 1238LCS-Name-StringUTF8String1239LCS-Requestor-IdGrouped1240LCS-Requestor-Id-StringUTF8String1241LCS-Client-TypeEnumerated1242Location-EstimateOctetString1243Location-Estimate-TypeEnumerated1244Location-TypeGrouped1245Positioning-DataUTF8String1246WLAN-Session-IdUTF8String1247PDP-Context-TypeEnumerated1248MMBox-Storage-RequestedEnumerated1249Service-Specific-InfoGrouped1250Called-Asserted-IdentityUTF8String1251Requested-Party-AddressUTF8String1252PoC-User-RoleGrouped | | | |
| 1239 LCS-Requestor-IdGrouped1240 LCS-Requestor-Id-StringUTF8String1241 LCS-Client-TypeEnumerated1242 Location-EstimateOctetString1243 Location-Estimate-TypeEnumerated1244 Location-TypeGrouped1245 Positioning-DataUTF8String1246 WLAN-Session-IdUTF8String1247 PDP-Context-TypeEnumerated1248 MMBox-Storage-RequestedEnumerated1249 Service-Specific-InfoGrouped1250 Called-Asserted-IdentityUTF8String1251 Requested-Party-AddressUTF8String1252 PoC-User-RoleGrouped | | | |
| 1240LCS-Requestor-Id-StringUTF8String1241LCS-Client-TypeEnumerated1242Location-EstimateOctetString1243Location-Estimate-TypeEnumerated1244Location-TypeGrouped1245Positioning-DataUTF8String1246WLAN-Session-IdUTF8String1247PDP-Context-TypeEnumerated1248MMBox-Storage-RequestedEnumerated1249Service-Specific-InfoGrouped1250Called-Asserted-IdentityUTF8String1251Requested-Party-AddressUTF8String1252PoC-User-RoleGrouped | | | |
| 1241LCS-Client-TypeEnumerated1242Location-EstimateOctetString1243Location-Estimate-TypeEnumerated1244Location-TypeGrouped1245Positioning-DataUTF8String1246WLAN-Session-IdUTF8String1247PDP-Context-TypeEnumerated1248MMBox-Storage-RequestedEnumerated1249Service-Specific-InfoGrouped1250Called-Asserted-IdentityUTF8String1251Requested-Party-AddressUTF8String1252PoC-User-RoleGrouped | | | |
| 1242Location-EstimateOctetString1243Location-Estimate-TypeEnumerated1244Location-TypeGrouped1245Positioning-DataUTF8String1246WLAN-Session-IdUTF8String1247PDP-Context-TypeEnumerated1248MMBox-Storage-RequestedEnumerated1249Service-Specific-InfoGrouped1250Called-Asserted-IdentityUTF8String1251Requested-Party-AddressUTF8String1252PoC-User-RoleGrouped | | | |
| 1243Location-Estimate-TypeEnumerated1244Location-TypeGrouped1245Positioning-DataUTF8String1246WLAN-Session-IdUTF8String1247PDP-Context-TypeEnumerated1248MMBox-Storage-RequestedEnumerated1249Service-Specific-InfoGrouped1250Called-Asserted-IdentityUTF8String1251Requested-Party-AddressUTF8String1252PoC-User-RoleGrouped | | | |
| 1244Location-TypeGrouped1245Positioning-DataUTF8String1246WLAN-Session-IdUTF8String1247PDP-Context-TypeEnumerated1248MMBox-Storage-RequestedEnumerated1249Service-Specific-InfoGrouped1250Called-Asserted-IdentityUTF8String1251Requested-Party-AddressUTF8String1252PoC-User-RoleGrouped | | | |
| 1245Positioning-DataUTF8String1246WLAN-Session-IdUTF8String1247PDP-Context-TypeEnumerated1248MMBox-Storage-RequestedEnumerated1249Service-Specific-InfoGrouped1250Called-Asserted-IdentityUTF8String1251Requested-Party-AddressUTF8String1252PoC-User-RoleGrouped | | | |
| 1246WLAN-Session-IdUTF8String1247PDP-Context-TypeEnumerated1248MMBox-Storage-RequestedEnumerated1249Service-Specific-InfoGrouped1250Called-Asserted-IdentityUTF8String1251Requested-Party-AddressUTF8String1252PoC-User-RoleGrouped | | | |
| 1247 PDP-Context-TypeEnumerated1248 MMBox-Storage-RequestedEnumerated1249 Service-Specific-InfoGrouped1250 Called-Asserted-IdentityUTF8String1251 Requested-Party-AddressUTF8String1252 PoC-User-RoleGrouped | | | |
| 1248 MMBox-Storage-RequestedEnumerated1249 Service-Specific-InfoGrouped1250 Called-Asserted-IdentityUTF8String1251 Requested-Party-AddressUTF8String1252 PoC-User-RoleGrouped | | | |
| 1249Service-Specific-InfoGrouped1250Called-Asserted-IdentityUTF8String1251Requested-Party-AddressUTF8String1252PoC-User-RoleGrouped | | | |
| 1250 Called-Asserted-IdentityUTF8String1251 Requested-Party-AddressUTF8String1252 PoC-User-RoleGrouped | | | |
| 1252 PoC-User-Role Grouped | | | |
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| 11252 DoC Usor Polo IDs | | | |
| 1233 F00-0361-N016-1D5 | 1253 PoC-User-Role-IDs | UTF8String | |

| 1254 PoC-User-Role-info-Units | AOSA De O Hear Dele infe Heite | Former and a d | |
|--|---|----------------|-------------|
| 1256 Service-Specific-Type Unsigned32 1258 Event-Charging-TimeStamp Time 1259 Participant-Access-Priority Enumerated 1260 Participant-Access-Priority Enumerated 1261 PoC-Change-Conditions Enumerated 1262 PoC-Change-Time Time 1263 Access-Network-Information CotetString 1264 Tingger Grouped 1265 Base-Time-Interval Unsigned32 1266 Envelope Grouped 1267 Envelope Grouped 1268 Envelope Grouped 1269 Envelope-Start-Time Time 1269 Envelope-Start-Time Time 1269 Envelope-Start-Time Time 1270 Time-Quota-Macchanism Grouped 1271 Time-Quota-Macchanism Grouped 1272 Early-Media-Description Grouped 1273 SDP-TimeStamps Grouped 1274 SDP-Offer-Timestamp Time 1275 SDP-Answer-Timestamp Time 1276 Ar-Correlation-Information Grouped 1277 PoC-Session-Initiation-type Enumerated 1278 Offine-Charging Grouped 1279 User-Participating-Type Enumerated 1271 User-Participating-Type Enumerated 1272 User-Participating-Type Enumerated 1273 User-Participating-Type Enumerated 1274 User-Party-Volume Unsigned32 1275 Establish-Volume Unsigned32 1276 Establish-Volume Unsigned32 1277 User-Participating- | | | |
| 1257 Service-Specific-Type | | | |
| 1289 Event-Charging-TimeStamp Time 1289 Participant-Access-Priority Enumerated 1280 Participant-Access-Priority Enumerated 1280 Participant-Access-Priority Enumerated 1280 PoC-Change-Time Time Time 1281 PoC-Change-Time Time Time 1282 Access-Network-Information OctofString Grouped Group | | | |
| 1259 Participant-Access-Priority Enumerated 1261 PoC-Change-Conditions Enumerated 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-End-Time Time 1269 Envelope-End-Time Time 1269 Envelope-End-Time Time 1260 Envelope-Start-Time Time 1261 Envelope-Start-Time Time 1270 Time-Quota-Mechanism Grouped 1271 Time-Quota-Type Enumerated 1272 Early-Media-Description Grouped 1273 SDP-Offer-Timestamp Grouped 1273 SDP-Offer-Timestamp Time 1274 SDP-Offer-Timestamp Time 1275 SDP-Ansewer-Timestamp Time 1276 SDP-Ansewer-Timestamp Time 1277 FoC-Session-Initiation-type Enumerated 1278 GAP-Charles Enumerated 1279 Toda-Quota-Type Enumerated 1271 Toda-Quota-Type Enumerated 1272 Early-Media-Description Grouped 1273 SDP-Offer-Timestamp Time 1275 SDP-Ansewer-Timestamp Time 1276 SDP-Ansewer-Timestamp Time 1277 SDP-Offer-Timestamp Time 1278 GAP-Charles Enumerated 1279 Unser-Participating-Type Enumerated 1270 Offine-Charles Unserver Enumerated 1271 Unser-Participating-Type Enumerated 1272 Unser-Participating-Type Enumerated 1273 Unser-Participating-Type Enumerated 1274 Unser-Participating-Type Unserver 1275 Unser-Participating-Type Enumerated 1276 Unser-Participating-Type Unserver 1277 Inde-Order Talk-Burst Unserver 1278 Market Talk-Burst Unserver 1279 Talk-Burst Unserver Unserver 1270 Total Unserver Unserver 1271 Total Unserver Unserver 1272 Total Unserver Unserver 1273 Talk-Burst Unserver Unserver 1274 Talk-Burst Unserver Unserver 1275 Talk-Burst Unserver Unserver 1276 Talk-Burst Unserver Unserver 1277 Talk-Burst Unserver Unserver 1278 | | | |
| 1260 Participant-Group Grouped Enumerated 1262 PoC-Change-Time Time Grouped Time | | | |
| 1261 PoC-Change-Conditions | | | |
| 1262 PoC-Change-Time | | | |
| 1263 Access-Network-Information | | | |
| 1266 Risse-Time-Interval | | Time | |
| 1266 Rivelope Grouped | 1263 Access-Network-Information | OctetString | |
| 1266 Envelope-End-Time | 1264 Trigger | Grouped | |
| 1268 Envelope-End-Time | 1265 Base-Time-Interval | Unsigned32 | |
| 1268 Envelope-End-Time | 1266 Envelope | Grouped | |
| Enumerated 1268 Envelope-Start-Time | | | |
| 1268 Envelope-Start-Time | | Enumerated | |
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| 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 Offilen-Charging Grouped 1279 Offilen-Charging Grouped 1279 User-Participating-Type Enumerated 1280 Alternate-Charged-Pary-Address UTF8String 1281 IMS-Communication-Service-Identifier UTF8String 1282 Number-Ol-Received-Talk-Bursts Unsigned32 1283 Number-Ol-Talk-Bursts Unsigned32 1284 Received-Talk-Burst-Time Unsigned32 1285 Received-Talk-Burst-Time Unsigned32 1286 Talk-Burst-Volume Unsigned32 1287 Talk-Burst-Volume Unsigned32 1288 Media-Initiator-Party UTF8String 1400 Subscription-Data Grouped 1401 Terminal-Information Grouped 1402 IME UTF8String 1403 Software-Version UTF8String 1404 QoS-Subscribed UTF8String 1405 ULA-Flags Unsigned32 1406 ULA-Flags Unsigned32 1407 Visited PLMN Id OctetString 1408 Requested-EUTRAN-Authentication-Info Grouped 1409 Requested-UTRAN-GERAN-Authentication-Info Grouped 1411 Re-Synchronization-Info Grouped 1412 Immediate-Response-Preferred Unsigned32 1413 Authentication-Info Grouped 1414 E-UTRAN-Vector Grouped 1415 UTRAN-Vector Grouped 1416 EUTRAN-Vector Grouped 1417 Network-Access-Mode Enumerated 1418 Item-Number Unsigned32 1420 Cancellation-Type Enumerated 1419 Item-Number Unsigned32 1421 Department Unsigned32 1422 Garden-Fermant Unsigned32 1423 Operator-Determined-Barring Unsigned32 1424 Subscriber-Status Enumerated 1425 Operator-Determined-Barring Unsigned32 1426 Operator-Determined-Barring Unsigned32 1427 APN-Ol-Replacement UTF8String UTF8String | | | |
| 1273 SDP-TimeStamps | | | |
| 1274 SDP-Offer-Timestamp Time 1275 SDP-Answer-Timestamp Time 1275 SDP-Answer-Timestamp Time 1276 AF-Correlation-Information Grouped Grouped | | | |
| SDP-Answer-Timestamp | | | |
| 1276 AF-Correlation-Information Grouped | | _ | |
| 1277 PoC-Session-Initiation-type Enumerated 1278 Offline-Charging Grouped Enumerated 1279 User-Participating-Type Enumerated 1278 UrisString 1281 IMS-Communication-Service-Identifier UTF8String 1282 Number-Of-Take-Bursts Unsigned32 1283 Number-Of-Take-Burst Unsigned32 1284 Received-Talk-Burst-Time Unsigned32 1285 Received-Talk-Burst-Volume Unsigned32 1286 Talk-Burst-Volume Unsigned32 1287 Talk-Burst-Volume Unsigned32 1287 Talk-Burst-Volume Unsigned32 1288 Media-Initiator-Party UTF8String UTF8String 1400 USubscription-Data Grouped 1410 Terminal-Information Grouped 1410 Terminal-Information Grouped 1410 Terminal-Information UTF8String UTF8String 1410 UTF8String UTF8String Unsigned32 1410 ULR-Flags Unsigned32 1410 ULR-Flags Unsigned32 1410 ULR-Flags Unsigned32 1410 ULR-Flags Unsigned32 1411 Re-Synchronization-Info Grouped 1410 Requested-UTRAN-Authentication-Info Grouped 1411 Re-Synchronization-Info Grouped 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 Item-Number Unsigned32 1420 Cancellation-Type Enumerated 1418 Item-Number Unsigned32 1420 Cancellation-Type Enumerated 1421 DR-Flags Unsigned32 1422 DS-Flags Unsigned32 1423 Access-Restriction-Data Unsigned32 1425 Operator-Determined-Barring Unsigned32 1426 Access-Restriction-Data UTF8String Unsigned32 1426 Access-Restriction-Data UTF8String Unsigned32 1426 Access-Restriction-Data UTF8String Unsigned32 1426 Access-Restriction-Data UTF8String Unsigned32 1427 APN-Ol-R | | | |
| 1278 User-Participating-Type | | | |
| 1279 User-Participating-Type | | | |
| 1280 Alternate-Charged-Party-Address | | | |
| 1281 MS-Communication-Service-Identifier | | | |
| 1282 Number-Of-Received-Talk-Bursts | | | |
| 1283 Number-Of-Talk-Bursts Unsigned32 1284 Received-Talk-Burst-Time Unsigned32 1285 Received-Talk-Burst-Volume Unsigned32 1286 Talk-Burst-Volume Unsigned32 1287 Talk-Burst-Volume Unsigned32 1288 Media-Initiator-Party UTF8String UNsigned32 | | | |
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| 1285 Received-Talk-Burst-Volume | | | |
| Talk-Burst-Time | | | |
| 1287 Talk-Burst-Volume | | | |
| 1288 Media-Initiator-Party WTF8String Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data Grouped 1401 Terminal-Information Grouped 1402 IME UTF8String 1403 Software-Version UTF8String 1404 QoS-Subscribed UTF8String 1405 ULR-Flags Unsigned32 1406 ULA-Flags Unsigned32 1407 Visited PLMN Id OcteString 1408 Requested-EUTRAN-Authentication-Info Grouped 1409 Requested-UTRAN-GERAN-Authentication-Info Grouped 1410 Number-Of-Requested-Vectors Unsigned32 1411 Re-Synchronization-Info Grouped 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 Access-Restriction-Data UTF8String 1427 APN-Ol-Replacement UTF8String 1428 ACCESS-RESTRICTOR UTF8String 1427 APN-Ol-Replacement UTF8String 1428 ACCESS-RESTRICTOR UTF8String 1429 APN-Ol-Replacement UTF8String 1420 APN-Ol-Replacement UTF8String 1421 APN-Ol-Replacement UTF8String 1422 APN-Ol-Replacement UTF8String 1424 APN-Ol-Replacement UTF8String 1426 ACCESS-RESTRICTOR APN-Ol-Replacement UTF8String 1426 ACCESS-RESTRICTOR APN-Ol-Replacement UTF8String 1426 ACCESS-RESTRICTOR APN-Ol-Replacement UTF8String 1426 APN-Ol-Replacement UTF8String 1426 APN-Ol-Replacement | 1286 Talk-Burst-Time | | |
| Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 | 1287 Talk-Burst-Volume | Unsigned32 | |
| 1400 Subscription-Data Grouped | | UTF8String | |
| Terminal-Information Grouped | | | |
| 1402 IMEI UTF8String 1403 Software-Version UTF8String 1404 QoS-Subscribed UTF8String 1405 ULR-Flags Unsigned32 1406 ULA-Flags Unsigned32 1407 Visited PLMN Id OctetString 1408 Requested-EUTRAN-Authentication-Info Grouped 1410 Number-Of-Requested-Vectors Unsigned32 1411 Re-Synchronization-Info OctetString 1412 Immediate-Response-Preferred Unsigned32 1413 Authentication-Info Grouped 1414 E-UTRAN-Vector Grouped 1415 UTRAN-Vector Grouped 1416 GERAN-Vector Grouped 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 UTF8St | | | |
| 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN-GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1427 APN-OI-Replacement 1438 UTRString 1446 UTRString 1447 Unsigned32 1448 Unsigned32 1449 Unsigned33 | | | |
| 1404 QoS-SubscribedUTF8String1405 ULR-FlagsUnsigned321406 ULA-FlagsUnsigned321407 Visited PLMN IdOctetString1408 Requested-EUTRAN-Authentication-InfoGrouped1409 Requested-UTRAN- GERAN-Authentication-InfoGrouped1410 Number-Of-Requested-VectorsUnsigned321411 Re-Synchronization-InfoOctetString1412 Immediate-Response-PreferredUnsigned321413 Authentication-InfoGrouped1414 E-UTRAN-VectorGrouped1415 UTRAN-VectorGrouped1416 GERAN-VectorGrouped1417 Network-Access-ModeEnumerated1418 HPLMN-ODBEnumerated1419 Item-NumberUnsigned321420 Cancellation-TypeEnumerated1421 DSR-FlagsUnsigned321422 DSA-FlagsUnsigned321423 Context-IdentifierUnsigned321424 Subscriber-StatusEnumerated1425 Operator-Determined-BarringUnsigned321426 Access-Restriction-DataUTF8String1427 APN-OI-ReplacementUTF8String | | UTF8String | |
| 1405ULR-FlagsUnsigned321406ULA-FlagsUnsigned321407Visited PLMN IdOctetString1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | 1403 Software-Version | UTF8String | |
| 1406ULA-FlagsUnsigned321407Visited PLMN IdOctetString1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | 1404 QoS-Subscribed | UTF8String | |
| 1407Visited PLMN IdOctetString1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | 1405 ULR-Flags | Unsigned32 | |
| 1407Visited PLMN IdOctetString1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | 1406 ULA-Flags | Unsigned32 | |
| 1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | |
| 1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | |
| 1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | |
| 1411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | |
| 1412 Immediate-Response-PreferredUnsigned321413 Authentication-InfoGrouped1414 E-UTRAN-VectorGrouped1415 UTRAN-VectorGrouped1416 GERAN-VectorGrouped1417 Network-Access-ModeEnumerated1418 HPLMN-ODBEnumerated1419 Item-NumberUnsigned321420 Cancellation-TypeEnumerated1421 DSR-FlagsUnsigned321422 DSA-FlagsUnsigned321423 Context-IdentifierUnsigned321424 Subscriber-StatusEnumerated1425 Operator-Determined-BarringUnsigned321426 Access-Restriction-DataUTF8String1427 APN-OI-ReplacementUTF8String | | | |
| 1413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | |
| 1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | |
| 1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | 29 272 [21] |
| 1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | 20.212 [21] |
| 1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | |
| 1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | |
| 1419 Item-NumberUnsigned321420 Cancellation-TypeEnumerated1421 DSR-FlagsUnsigned321422 DSA-FlagsUnsigned321423 Context-IdentifierUnsigned321424 Subscriber-StatusEnumerated1425 Operator-Determined-BarringUnsigned321426 Access-Restriction-DataUTF8String1427 APN-OI-ReplacementUTF8String | | | |
| 1420Cancellation-TypeEnumerated1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | |
| 1421DSR-FlagsUnsigned321422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | |
| 1422DSA-FlagsUnsigned321423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | |
| 1423Context-IdentifierUnsigned321424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | |
| 1424Subscriber-StatusEnumerated1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | |
| 1425Operator-Determined-BarringUnsigned321426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | |
| 1426Access-Restriction-DataUTF8String1427APN-OI-ReplacementUTF8String | | | |
| 1427 APN-OI-Replacement UTF8String | | | |
| | La at VIII and and I I and mind to an I I and a | LITESString | |
| 1428 All-APN-Configurations-Included-Indicator Enumerated | | | |
| | 1427 APN-OI-Replacement | UTF8String | |

| 1429 APN-Configuration-Profile | Grouped |
|--|--------------------------|
| 1430 APN-Configuration | Grouped |
| 1431 EPS-Subscribed-QoS-Profile | Grouped |
| 1432 VPLMN-Dynamic-Address-Allowed | Enumerated |
| 1433 STN-SR | OctetString |
| 1434 Alert-Reason | Enumerated |
| 1435 AMBR | Grouped |
| 1436 CSG-Subscription-Data | Grouped |
| 1437 CSG-Id | Unsigned32 |
| 1438 PDN-GW-Allocation-Type | Enumerated |
| 1439 Expiration-Date | Time |
| 1440 RAT-Frequency-Selection-Priority-ID | Unsigned32 |
| 1441 IDA-Flags | Unsigned32 |
| 1442 PUA-Flags | Unsigned32 |
| 1443 NOR-Flags | Unsigned32 |
| 1444 User-Id | UTF8String |
| 1445 Equipment-Status | Enumerated |
| 1446 Regional-Subscription-Zone-Code | OctetString |
| 1447 RAND | OctetString |
| 1448 XRES | OctetString |
| 1449 AUTN | OctetString |
| 1450 KASME | OctetString |
| 1451 Reserved | - |
| 1452 Trace-Collection-Entity | Address |
| 1453 Kc | OctetString |
| 1454 SRES | OctetString |
| 1455 Reserved | - |
| 1456 PDN-Type | Enumerated |
| 1457 Roaming-Restricted-Due-To-Unsupported-Feature | Enumerated |
| 1458 Trace-Data | Grouped |
| 1459 Trace-Reference | OctetString |
| 1460 Reserved | - |
| 1461 Reserved | - |
| 1462 Trace-Depth | Enumerated |
| 1463 Trace-NE-Type-List | OctetString |
| 1464 Trace-Interface-List | OctetString |
| 1465 Trace-Event-List | OctetString |
| 1466 OMC-Id | OctetString |
| 1466 OMC-10 1467 GPRS-Subscription-Data | |
| | Grouped |
| 1468 Complete-Data-List-Included-Indicator | Enumerated |
| 1469 PDP-Context | Grouped |
| 1470 PDP-Type | OctetString |
| 1471 3GPP2-MEID | OctetString |
| 1472 Specific-APN-Info | Grouped |
| 1473 LCS-Info | Grouped |
| 1474 GMLC-Number | OctetString |
| 1475 LCS-PrivacyException | Grouped |
| 1476 SS-Code | OctetString |
| 1477 SS-Status | OctetString |
| 1478 Notification-To-UE-User | Enumerated |
| 1479 External-Client | Grouped |
| 1480 Client-Identity | OctetString |
| 1481 GMLC-Restriction | Enumerated |
| 1482 PLMN-Client | Enumerated |
| 1483 Service-Type | Grouped |
| 1484 ServiceTypeIdentity | Unsigned32 |
| 1485 MO-LR | Grouped |
| 1486 Teleservice-List | Grouped |
| 1487 TS-Code | Enumerated |
| 1488 Call-Barring-Info | Grouped |
| | OctetString |
| 1489 SGSN-Number | Octolotina |
| | |
| 1490 IDR-Flags | Unsigned32 |
| 1489 SGSN-Number 1490 IDR-Flags 1491 ICS-Indicator 1492 IMS-Voice-Over-PS-Sessions-Supported | Unsigned32 Enumerated |
| 1490 IDR-Flags | Unsigned32 |

| 1494 | Last-UE-Activity-Time | Time | |
|---|--|---|-------------|
| 1495 | EPS-User-State | Grouped | |
| 1496 | EPS-Location-Information | Grouped | |
| 1497 | MME-User-State | Grouped | |
| 1498 | SGSN-User-State | Grouped | |
| | 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 | |
| | MIP-FA-RK | OctetString | |
| 1507 | MIP-FA-RK-SPI | Unsigned32 | |
| 1508 | PPR-Flags | Unsigned32 | |
| | WLAN-Identifier | Grouped | |
| | TWAN-Access-Info | Grouped | |
| | Access-Authorization-Flags | Unsigned32 | |
| | TWAN-Default-APN-Context-Id | Unsigned32 | 00 070 [00] |
| | Reserved | - | 29.273 [20] |
| | Reserved | - | |
| | Reserved | - | |
| | Full-Network-Name | OctetString | |
| | Short-Network-Name | OctetString | |
| | AAA-Failure-Indication | Unsigned32 | |
| | Transport-Access-Type | Enumerated | |
| | DER-Flags | Unsigned32 | |
| | DEA-Flags | Unsigned32 | |
| | RAR-Flags | Unsigned32 | |
| | DER-S6b-Flags | Unsigned32 | |
| | SSID | UTF8String | |
| | | | |
| 1525 | | | |
| | HESSID | UTF8String | |
| Note: | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 | UTF8String | |
| Note: 1600 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information | UTF8String Grouped | |
| Note: 1600 1601 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information | UTF8String Grouped Grouped | |
| Note: 1600 1601 1602 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity | UTF8String Grouped Grouped OctetString | |
| Note: 1600 1601 1602 1603 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity | Grouped Grouped OctetString OctetString | |
| Note: 1600 1601 1602 1603 1604 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity | Grouped Grouped OctetString OctetString OctetString | |
| Note: 1600 1601 1602 1603 1604 1605 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity | Grouped Grouped OctetString OctetString OctetString OctetString OctetString | |
| Note: 1600 1601 1602 1603 1604 1605 1606 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity | Grouped Grouped OctetString OctetString OctetString | |
| Note: 1600 1601 1602 1603 1604 1605 1606 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity | Grouped Grouped OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString | |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information | Grouped Grouped OctetString | |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity | Grouped Grouped OctetString | |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved | Grouped Grouped OctetString Enumerated | |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information | Grouped Grouped OctetString Unsigned32 | |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN | Grouped Grouped OctetString Unsigned32 Grouped | |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission | Grouped Grouped OctetString Unsigned32 | |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated | 29.272 [21] |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated | 29.272 [21] |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated | 29.272 [21] |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 1616 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated | 29.272 [21] |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 1616 1617 1618 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated | 29.272 [21] |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 1616 1617 1618 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 | 29.272 [21] |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 OctetString | 29.272 [21] |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 OctetString Address | 29.272 [21] |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 OctetString Address Grouped | 29.272 [21] |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 1622 1623 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration Job-Type | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 OctetString Address Grouped Enumerated | 29.272 [21] |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 1622 1623 1624 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration Job-Type Area-Scope | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 OctetString Address Grouped Enumerated Grouped | 29.272 [21] |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1620 1621 1622 1623 1624 1625 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration Job-Type Area-Scope List-Of-Measurements | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated Unsigned32 OctetString Address Grouped Enumerated Grouped Unsigned32 | 29.272 [21] |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1620 1621 1622 1623 1624 1625 1626 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration Job-Type Area-Scope List-Of-Measurements Reporting-Trigger | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 OctetString Address Grouped Enumerated Unsigned32 OctetString Address Grouped Unsigned32 Unsigned32 | 29.272 [21] |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1620 1621 1622 1623 1624 1625 1626 1627 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration Job-Type Area-Scope List-Of-Measurements Report-Interval | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 OctetString Address Grouped Enumerated Unsigned32 OctetString Address Grouped Enumerated Enumerated Enumerated Enumerated Enumerated | 29.272 [21] |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1620 1621 1622 1623 1624 1625 1626 1627 1628 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration Job-Type Area-Scope List-Of-Measurements Report-Interval Report-Amount | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 OctetString Address Grouped Enumerated Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated | 29.272 [21] |
| Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 | HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration Job-Type Area-Scope List-Of-Measurements Report-Interval | Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 OctetString Address Grouped Enumerated Unsigned32 OctetString Address Grouped Enumerated Enumerated Enumerated Enumerated Enumerated | 29.272 [21] |

| 4004 Lawring Interval | | |
|---|------------------|------------|
| 1631 Logging-Interval | Enumerated | İ |
| 1632 Logging-Duration | Enumerated | İ |
| 1633 Relay-Node-Indicator | Enumerated | İ |
| 1634 MDT-User-Consent | Enumerated | İ |
| 1635 PUR-Flags | Unsigned32 | İ |
| 1636 Subscribed-VSRVCC | Enumerated | Ì |
| 1637 Equivalent-PLMN-List | Grouped | Ì |
| 1638 CLR-Flags | Unsigned32 | Ì |
| 1639 UVR-Flags | Unsigned32 | Ì |
| 1640 UVA-Flags | Unsigned32 | Ì |
| 1641 VPLMN-CSG-Subscription-Data | Grouped | Ì |
| 1642 Time-Zone | UTF8String | Ì |
| 1643 A-MSISDN | OctetString | Ì |
| | Octetstring | Ì |
| 1644 Reserved | - | Ì |
| 1645 MME-Number-for-MT-SMS | OctetString | Ì |
| 1646 Reserved | - | Ì |
| 1647 Reserved | - | Ì |
| 1648 SMS-Register-Request | Enumerated | Ì |
| 1649 Local-Time-Zone | Grouped | 1 |
| 1650 Daylight-Saving-Time | Enumerated | 1 |
| 1651 GMLC-Info | Grouped | 1 |
| 1652 GMLC-Name | DiameterIdentity | 1 |
| | DiameterIdentity | 1 |
| 1653 GMLC-Realm | , | 1 |
| 1654 Subscription-Data-Flags | Unsigned32 | 1 |
| 1655 Measurement-Period-LTE | Enumerated | 1 |
| 1656 Measurement-Period-UMTS | Enumerated | 1 |
| 1657 Collection-Period-RRM-LTE | Enumerated | Ì |
| 1658 Collection-Period-RRM-UMTS | Enumerated | Ì |
| 1659 Positioning-Method | OctetString | Ì |
| 1660 Measurement-Quantity | OctetString | Ì |
| 1661 Event-Threshold-Event-1F | Integer32 | Ì |
| 1662 Event-Threshold-Event-1I | Integer32 | Ì |
| 1663 Restoration-Priority | Unsigned32 | Ì |
| | Orisigned32 | Ì |
| 1664 Reserved | - | Ì |
| 1665 Reserved | - | Ì |
| 1666 Reserved | - | Ì |
| 1667 Reserved | - | Ì |
| 1668 Reserved | - | Ì |
| 1669 Reserved | - | Ì |
| 1670 Reserved | - | Ì |
| 1671 MDT-Allowed-PLMN-Id | OctetString | 1 |
| Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272. | , | |
| 2000 SMS-Information | Grouped | |
| 2001 Data-Coding-Scheme | Integer32 | 1 |
| 2002 Destination-Interface | Grouped | 1 |
| | | 1 |
| 2003 Interface-Id | UTF8String | 1 |
| 2004 Interface-Port | UTF8String | 1 |
| 2005 Interface-Text | UTF8String | 1 |
| 2006 Interface-Type | Enumerated | 1 |
| 2007 SM-Message-Type | Enumerated | 1 |
| 2008 Originating-SCCP-Address | Address | 1 |
| 2009 Originator-Interface | Grouped | 1 |
| 2010 Recipient-SCCP-Address | Address | 1 |
| 2011 Reply-Path-Requested | Enumerated | 32.299 [5] |
| | Time | JZ.Z33 [J] |
| 2012 SM-Discharge-Time | | 1 |
| 2013 SM-Protocol-ID | OctetString | 1 |
| 2014 SM-Status | OctetString | 1 |
| 2015 SM-User-Data-Header | OctetString | 1 |
| 2016 SMS-Node | Enumerated | 1 |
| 2017 SMSC-Address | Address | 1 |
| 2018 Client-Address | Address | 1 |
| 2019 Number-of-Messages-Sent | Unsigned32 | 1 |
| 2020 Low-Balance-Indication | Enumerated | 1 |
| 2021 Remaining-Balance | Grouped | 1 |
| 2022 Refund-Information | OctetString | 1 |
| בטבב וויסועווע־ווווטוווומווטוו | l OcietStillig | |

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|--|--------------------------|------------|
| 2023 Carrier-Select-Routing-Information | UTF8String | |
| 2024 Number-Portability-Routing-Information | UTF8String | |
| 2025 PoC-Event-Type | Enumerated | |
| 2026 Recipient-Info | Grouped | |
| 2027 Originator-Received-Address | Grouped | |
| 2028 Recipient-Received-Address | Grouped | |
| 2029 SM-Service-Type | Enumerated | |
| 2030 MMTel-Information | Grouped | |
| 2031 MMTel-Sservice-Type | Unsigned32 | |
| 2032 Service-Mode | Unsigned32 | |
| 2033 Subscriber-Role | Enumerated | |
| 2034 Number-Of-Diversions | Unsigned32 | |
| 2035 Associated-Party-Address | UTF8String | |
| 2036 SDP-Type | Enumerated | |
| 2037 Change-Condition | Integer32 | |
| 2038 Change-Time | Time | |
| 2039 Diagnostics | Integer32 | |
| 2040 Service-Data-Container | Grouped | |
| 2041 Start-Time | Time | |
| 2042 Stop-Time | Time | |
| 2043 Time-First-Usage | Time | |
| 2044 Time-Last-Usage | Time | |
| 2045 Time-Usage | Unsigned32 | |
| 2046 Traffic-Data-Volumes | Grouped | |
| 2047 Serving-Node-Type | Enumerated | |
| 2048 Supplementary-Service | Grouped | |
| 2049 Participant-Action-Type | Enumerated | |
| 2050 PDN-Connection-Charging-ID | Unsigned32 | |
| 2051 Dynamic-Address-Flag | Enumerated | |
| 2052 Accumulated-Cost | Grouped | |
| 2053 AoC-Cost-Information | Grouped | |
| 2054 AoC-Information | Grouped | |
| 2055 AoC-Request-Type | Enumerated | |
| 2056 Current-Tariff | Grouped | |
| 2057 Next-Tariff | Grouped | |
| 2058 Rate-Element | Grouped | |
| 2059 Scale-Factor | Grouped | |
| 2060 Tariff-Information | Grouped | |
| 2061 Unit-Cost | Grouped | |
| 2062 Incremental-Cost | Grouped | |
| 2063 Local-Sequence-Number | Unsigned32 | |
| 2064 Node-Id | UTF8String | |
| 2065 SGW-Change | Enumerated | |
| 2066 Charging-Characteristic-Selection-Mode | Enumerated | |
| 2067 SGW-Address | Address | |
| 2068 Dynamic-Address-Flag-Extension | Enumerated | |
| Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299 | | |
| 2100 reserved | - | |
| 2101 Application-Server-ID | UTF8String | |
| 2102 Application-Service-Type | Enumerated | |
| 2103 Application-Session-ID | Unsigned32 | |
| 2104 Delivery-Status | UTF8String | |
| 2105 reserved | - | |
| 2106 reserved | - | |
| 2107 reserved | - | |
| 2108 reserved | - | 32.299 [5] |
| 2109 reserved | - C | • • |
| 2110 IM-Information | Grouped | |
| 2111 Number-Of-Messages-Successfully-Exploded | Unsigned32 | |
| 2112 Number-Of-Messages-Successfully-Sent | Unsigned32 | |
| 2113 Total-Number-Of-Messages-Exploded | Unsigned32 | |
| 2114 Total-Number-Of-Messages-Sent | Unsigned32 | |
| 2115 DCD-Information | / rouned | |
| | Grouped | |
| 2116 Content-ID 2117 Content-provider-ID | UTF8String UTF8String | |

| 2440 Charge Dagger Code | Course state d | |
|--|------------------|-------------|
| 2118 Charge-Reason-Code | Enumerated | |
| Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 | | |
| 2200 Subsession-Decision-Info | Grouped | |
| 2201 Subsession-Enforcement-Info | Grouped | |
| 2202 Subsession-Id | Unsigned32 | |
| 2203 Subsession-Operation | Enumerated | |
| 2204 Multiple-BBERF-Action | Enumerated | 29.215 [22] |
| 2205 UE-Local-IPv6-Prefix | OctetString | |
| 2206 DRA-Deployment | Enumerated | |
| 2207 PCRF-Address | DiameterIdentity | |
| 2208 DRA-Binding | Enumerated | |
| Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215 | | |
| 2300 reserved | - | |
| 2301 SIP-Request-Timestamp-Fraction | Unsigned32 | |
| 2302 SIP-Response-Timestamp-Fraction | Unsigned32 | |
| 2303 Online-Charging-Flag | Enumerated | |
| 2304 CUG-Information | OctetString | |
| 2305 Real-Time-Tariff-Information | Grouped | |
| 2306 Tariff-XML | UTF8String | |
| 2307 MBMS GW-Address | Address | |
| 2308 IMSI-Unauthenticated-Flag | Enumerated | |
| 2309 Account-Expiration | Time | |
| | | |
| 2310 AoC-Format | Enumerated | |
| 2311 AoC-Service | Enumerated | 32.299 [5] |
| 2312 AoC-Service-Obligatory-Type | Grouped | L-1 |
| 2313 AoC-Service-Type | Enumerated | |
| 2314 AoC-Subscription-Information | Grouped | |
| 2315 Preferred-AoC-Currency | Unsigned32 | |
| 2316 Reserved | - | |
| 2317 CSG-Access-Mode | Enumerated | |
| 2318 CSG-Membership-Indication | Enumerated | |
| 2319 User-CSG-Information | Grouped | |
| 2320 Outgoing-Session-Id | UTF8String | |
| 2321 Initial-IMS-Charging-Identifier | UTF8String | |
| 2322 IMS-Emergency-Indicator | Enumerated | |
| 2323 MBMS-Charged-Party | Enumerated | |
| Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299 | | |
| 2400 LMSI | OctetString | |
| 2401 Serving-Node | Grouped | |
| 2402 MME-Name | DiameterIdentity | |
| 2403 MSC-Number | OctetString | |
| 2404 LCS-Capabilities-Sets | Unsigned32 | 29.173 [25] |
| 2405 GMLC-Address | Address | 23.173 [23] |
| 2406 Additional-Serving-Node | Grouped | |
| 2406 Additional-Serving-Node | Address | |
| 2407 PPR-Address 2408 MME-Realm | DiameterIdentity | |
| Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 | Diameteridentity | |
| | Enumerate d | |
| 2500 Location-Type | Enumerated | |
| 2501 LCS-EPS-Client-Name | Grouped | |
| 2502 LCS-Requestor-Name | Grouped | |
| 2503 LCS-Priority | Unsigned32 | |
| 2504 LCS-QoS | Grouped | |
| 2505 Horizontal-Accuracy | Unsigned32 | |
| 2506 Vertical-Accuracy | Unsigned32 | |
| 2507 Vertical-Requested | Enumerated | |
| 2508 Velocity-Requested | Enumerated | 20 472 [24] |
| 2509 Response-Time | Enumerated | 29.172 [24] |
| 2510 Supported-GAD-Shapes | Unsigned32 | |
| 2511 LCS-Codeword | UTF8String | |
| 2512 LCS-Privacy-Check | Enumerated | |
| 2513 Accuracy-Fulfilment-Indicator | Enumerated | |
| 2514 Age-Of-Location-Estimate | Unsigned32 | |
| 2515 Velocity-Estimate | OctetString | |
| 2516 EUTRAN-Positioning-Data | OctetString | |
| 2517 ECGI | OctetString | |
| [ZUT LOGI | Ocieioiiiig | |

| 2518 Location-Event | Enumerated | |
|---|--|-------------|
| 2519 Pseudonym-Indicator | Enumerated | |
| 2520 LCS-Service-Type-ID | Unsigned32 | _ |
| 2521 LCS-Privacy-Check-Non-Session | Grouped | |
| 2522 LCS-Privacy-Check-Session | Grouped | |
| 2522 LCS-PHVacy-Check-Session 2523 LCS-QoS-Class | Enumerated | |
| Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172 | Enumerateu | |
| | _ | |
| 2600 reserved | | |
| 2601 IMS-Application-Reference-Identifier | UTF8String | _ |
| 2602 Low-Priority-Indicator | Enumerated | 00 000 [5] |
| 2603 IP-Realm-Default-Indicator | Enumerated | 32.299 [5] |
| 2604 Local-GW-Inserted-Indicator | Enumerated | |
| 2605 Transcoder-Inserted-Indicator | Enumerated | |
| 2606 PDP-Address-Prefix-Length | Unsigned32 | |
| Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 | I | |
| 2700 Not allocated | - | |
| 2701 Transit-IOI-List | UTF8String | |
| 2702 Status-AS-Code | Enumerated | |
| 2703 NNI-Information | Grouped | |
| 2704 NNI-Type | Enumerated | |
| 2705 Neighbour-Node-Address | Address | |
| 2706 Relationship-Mode | Enumerated | |
| 2707 Session-Direction | Enumerated | |
| 2708 From-Address | UTF8String | 20 200 [5] |
| 2709 Access-Transfer-Information Access-Transfer-Type | Grouped | 32.299 [5] |
| 2710 Access-Transfer-Type | Enumerated | |
| 2711 Related-IMS-Charging-Identifier | UTF8String | |
| 2712 Related-IMS-Charging-Identifier-Node | Address | |
| 2713 IMS-Visited-Network-Identifier | UTF8String | |
| 2714 TWAN-User-Location-Info | Grouped | _ |
| 2715 Reserved | Crouped | |
| 2716 BSSID | UTF8String | |
| 2717 TAD-Identifier | Enumerated | |
| Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299 | Enumerateu | |
| 2800 Reserved | _ | |
| 2801 ADC-Revalidation-Time | - Time | |
| | | |
| 2802 TDF-Application-Instance-Identifier | OctetString | |
| 2803 HeNB-BBF-FQDN | UTF8String | |
| 2804 HeNB-Local-IP-Address | Address | _ |
| 2805 UE-Local-IP-Address | Address | |
| 2806 UDP-Source-Port | Unsigned32 | |
| 2807 CS-Service-Qos-Request-Identifier | OctetString | |
| 2808 CS-Service-QoS-Request-Operation | Enumerated | |
| 2809 Mute-Notification | | |
| 2810 Monitoring-Time | Enumerated | |
| | Enumerated Time | - |
| 2811 AN-GW-Status | Enumerated Time Enumerated | - |
| 2812 User-Location-Info-Time | Enumerated Time Enumerated Grouped | 29.212 [19] |
| | Enumerated Time Enumerated Grouped Time | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause | Enumerated Time Enumerated Grouped | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report | Enumerated Time Enumerated Grouped Time | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause | Enumerated Time Enumerated Grouped Time Enumerated | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation | Enumerated Time Enumerated Grouped Time Enumerated | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation 2816 Reserved | Enumerated Time Enumerated Grouped Time Enumerated | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation 2816 Reserved 2817 Reserved | Enumerated Time Enumerated Grouped Time Enumerated | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation 2816 Reserved 2817 Reserved 2818 Reserved | Enumerated Time Enumerated Grouped Time Enumerated | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation 2816 Reserved 2817 Reserved 2818 Reserved 2819 Reserved 2820 Reserved | Enumerated Time Enumerated Grouped Time Enumerated | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation 2816 Reserved 2817 Reserved 2818 Reserved 2819 Reserved 2820 Reserved 2821 Reserved | Enumerated Time Enumerated Grouped Time Enumerated | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation 2816 Reserved 2817 Reserved 2818 Reserved 2819 Reserved 2820 Reserved 2821 Reserved 2821 Reserved 2822 Reserved | Enumerated Time Enumerated Grouped Time Enumerated | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation 2816 Reserved 2817 Reserved 2818 Reserved 2819 Reserved 2820 Reserved 2821 Reserved 2821 Reserved 2822 Reserved 2823 Reserved | Enumerated Time Enumerated Grouped Time Enumerated | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation 2816 Reserved 2817 Reserved 2818 Reserved 2819 Reserved 2820 Reserved 2821 Reserved 2821 Reserved 2822 Reserved 2823 Reserved 2824 NetLoc-Access-Support | Enumerated Time Enumerated Grouped Time Enumerated | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation 2816 Reserved 2817 Reserved 2818 Reserved 2819 Reserved 2820 Reserved 2821 Reserved 2821 Reserved 2822 Reserved 2823 Reserved 2824 NetLoc-Access-Support Note: The AVP codes from 2825 to 2899 are reserved for TS 29.212 | Enumerated Time Enumerated Grouped Time Enumerated | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation 2816 Reserved 2817 Reserved 2818 Reserved 2819 Reserved 2820 Reserved 2821 Reserved 2821 Reserved 2822 Reserved 2823 Reserved 2824 NetLoc-Access-Support Note: The AVP codes from 2825 to 2899 are reserved for TS 29.212 2900 reserved | Enumerated Time Enumerated Grouped Time Enumerated Enumerated | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation 2816 Reserved 2817 Reserved 2818 Reserved 2819 Reserved 2820 Reserved 2821 Reserved 2821 Reserved 2822 Reserved 2823 Reserved 2824 NetLoc-Access-Support Note: The AVP codes from 2825 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier | Enumerated Time Enumerated Grouped Time Enumerated Enumerated Enumerated Enumerated | |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation 2816 Reserved 2817 Reserved 2818 Reserved 2819 Reserved 2820 Reserved 2821 Reserved 2821 Reserved 2822 Reserved 2823 Reserved 2824 NetLoc-Access-Support Note: The AVP codes from 2825 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status | Enumerated Time Enumerated Grouped Time Enumerated Enumerated Enumerated UTF8String | 29.212 [19] |
| 2812 User-Location-Info-Time 2813 CS-Service-Resource-Report 2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation 2816 Reserved 2817 Reserved 2818 Reserved 2819 Reserved 2820 Reserved 2821 Reserved 2821 Reserved 2822 Reserved 2823 Reserved 2824 NetLoc-Access-Support Note: The AVP codes from 2825 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier | Enumerated Time Enumerated Grouped Time Enumerated Enumerated Enumerated Enumerated | |

| Note: | The AVP codes from 2905 to 2999 are reserved for TS 29.219 | | |
|-------|---|--------------------|-------------|
| | reserved | - | |
| 3001 | Device-Action | Grouped | |
| 3002 | Device-Notification | Grouped | |
| 3003 | Trigger-Data | Grouped | |
| | Payload | OctetString | |
| | Action-Type | Enumerated | 29.368 [27] |
| | Priority-Indication | Enumerated | |
| | Reference-Number | Unsigned32 | |
| | Request-Status | Enumerated | |
| | Delivery-Outcome | Enumerated | |
| | Application-Port-Identifier | Unsigned32 | |
| | The AVP codes from 3011to 3099 are reserved for TS 29.368 | G. Tolg Todo | |
| | IP-SM-GW-Number | OctetString | |
| | IP-SM-GW-Name | Diameter Identity | |
| | User-Identifier | Grouped | |
| | Service-ID | Enumerated | |
| | SCS-Identity | OctetString | |
| | Service-Parameters | Grouped | |
| | T4-Parameters | Grouped | 29.336 [28] |
| | Service-Data | Grouped | |
| | | | |
| | T4-Data HSS-Cause | Grouped Unsigned32 | |
| | | | |
| | SIR-Flags | Unsigned32 | |
| | External-Identifier | UTF8String | |
| | The AVP codes from 3112 to 3199 are reserved for TS 29.336 | | |
| | SM-Delivery-Outcome-T4 | Enumerated | 29.337 [29] |
| | Absent-Subscriber-Diagnostic-T4 | Enumerated | |
| | The AVP codes from 3202 to 3299 are reserved for TS 29.337 | O at at Ctuin a | |
| | SC-Address | OctetString | |
| | SM-RP-UI | OctetString | |
| | TFR-Flags | Unsigned32 | |
| | SM-Delivery- Failure-Cause | Grouped | |
| | SM-Enumerated-Delivery-Failure-Cause | Enumerated | |
| | SM-Diagnostic-Info | OctetString | |
| | SM-Delivery-Timer | Unsigned32 | |
| | SM-Delivery-Start-Time | Time | |
| | SM-RP-MTI | Enumerated | |
| | SM-RP-SMEA | OctetString | |
| | SRR-Flags | Unsigned32 | |
| | SM-Delivery-Not-Intended | Enumerated | 29.338 [30] |
| | MWD-Status | Unsigned32 | |
| | MME-Absent-User-Subscriber-Diagnostic-SM | Unsigned32 | |
| | MSC-Absent-User-Subscriber-Diagnostic-SM | Unsigned32 | |
| | SGSN-Absent-User-Subscriber-Diagnostic SM | Unsigned32 | |
| | SM-Delivery-Outcome | Grouped | |
| | MME-SM-Delivery-Outcome | Grouped | |
| | MSC-SM-Delivery-Outcome | Grouped | |
| | SGSN-SM-Delivery-Outcome | Grouped | |
| | IP-SM-GW-SM-Delivery-Outcome | Grouped | |
| | SM-Delivery-Cause | Enumerated | |
| | Absent Hear Cuberiber Diagnostic CM | Unsigned32 | |
| | Absent-User-Subscriber-Diagnostic-SM The AVP codes from 3323 to 3399 are reserved for TS 29.338 | Ulisigheusz | |

8 Experimental result codes

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

8.1 3GPP specific result codes

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

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

8.1.1 Informational

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

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

8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

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

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

| 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. | |
| 4121 | DIAMETER_ERROR_OUT_OF_RESOURCES | 29.061 [13] |
| Note: The Experime | ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061. | |
| 4141 | DIAMETER_PCC_BEARER_EVENT | |
| 4142 | DIAMETER_BEARER_EVENT | 29.212 [19] |
| 4143 | DIAMETER_AN_GW_FAILED | |
| Note: The Experime | ntal Result Codes from 4144 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 | 29.172 [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. | |
| 4241 | DIAMETER_ERROR_NO_AVAILABLE_POLICY_COUNTERS | 29.219 [26] |
| Note: The Experime | ntal Result Codes from 4242 to 4260 are reserved for the TS 29.219. | |

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

| Experimental Result Code | Result text | Specified in the TS |
|---------------------------------------|---|---------------------|
| 5001 | DIAMETER_ERROR_USER_UNKNOWN | |
| 5002 | DIAMETER_ERROR_IDENTITIES_DONT_MATCH | |
| 5003 | DIAMETER_ERROR_IDENTITY_NOT_REGISTERED | |
| 5004 | DIAMETER_ERROR_ROAMING_NOT_ALLOWED | |
| 5005 | DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED | |
| 5006 | DIAMETER ERROR AUTH SCHEME NOT SUPPORTED | 29.229 [2] |
| 5007 | DIAMETER_ERROR_IN_ASSIGNMENT_TYPE | _00 [_] |
| 5008 | DIAMETER_ERROR_TOO_MUCH_DATA | |
| 5009 | DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA | |
| 5010 | unassigned | |
| 5011 | DIAMETER ERROR FEATURE UNSUPPORTED | |
| | erimental Result Codes from 5012 to 5020 are reserved for the To | 2 20 220 |
| Note. The Expe | | 32.299 [5] |
| Note: The Even | L primental Result Codes from 5021 to 5040 are reserved for the T | |
| | DIAMETER ERROR USER NO WLAN SUBSCRIPTION | 5 32.299. |
| 5041 | | |
| 5042 | DIAMETER_ERROR_W-APN_UNUSED_BY_USER | |
| 5043 | DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC | 29.234 [6] |
| | RIPTION | [-] |
| 5044 | DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION | |
| 5045 | DIAMETER_ERROR_UNSUITABLE_NETWORK | |
| | erimental Result Codes from 5046 to 5060 are reserved for the T | S 29.234. |
| 5061 | INVALID_SERVICE_INFORMATION | |
| 5062 | FILTER_RESTRICTIONS | |
| 5063 | REQUESTED_SERVICE_NOT_AUTHORIZED | |
| 5064 | DUPLICATED_AF_SESSION | 29.209 [8], |
| 5065 | IP-CAN_SESSION_NOT_AVAILABLE | 29.211 [17] |
| 5066 | UNAUTHORIZED_NON_EMERGENCY_SESSION | |
| 5067 | UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY | |
| 5068 | TEMPORARY_NETWORK_FAILURE | |
| | rimental Result Codes from 5063 to 5080 are reserved for TS 29 TS 29.214. | 9.209, TS 29.211 |
| 5100 | DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED | |
| 5101 | DIAMETER_ERROR_OPERATION_NOT_ALLOWED | |
| 5102 | DIAMETER ERROR USER DATA CANNOT BE READ | |
| 5103 | DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED | |
| 5104 | DIAMETER ERROR USER DATA CANNOT BE NOTIFIED | |
| 5105 | DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC | 29.329 [4] |
| 5106 | DIAMETER_ERROR_SUBS_DATA_ABSENT | |
| 5107 | DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA | |
| 5108 | DIAMETER_ERROR_DSAI_NOT_AVAILABLE | |
| | erimental Result Codes from 5109 to 5119 are reserved for the T | S 20 320 |
| · · · · · · · · · · · · · · · · · · · | | J 29.029. |
| 5120 5121 | DIAMETER_ERROR_START_INDICATION DIAMETER_ERROR_STOP_INDICATION | |
| 5122 | DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC | 29.061 [13] |
| 5123 | DIAMETER_ERROR_SERVICE_AREA | 2.00.004 |
| | erimental Result Codes from 5124 to 5139 are reserved for the TS | 5 29.061. |
| 5140 | DIAMETER_ERROR_INITIAL_PARAMETERS | |
| 5141 | DIAMETER_ERROR_TRIGGER_EVENT | |
| 5142 | DIAMETER_PCC_RULE_EVENT | |
| 5143 | DIAMETER_ERROR_BEARER_NOT_AUTHORIZED | |
| 5144 | DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D | 29.212 [19] |
| 5145 | DIAMETER_QOS_RULE_EVENT | |
| 5146 | reserved | |
| 5147 | DIAMETER_ERROR_CONFLICTING_REQUEST | |
| 5148 | DIAMETER_ADC_RULE_EVENT | |
| | erimental Result Codes from 5149 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 | =300 [, |
| 0.100 | | |

| Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109. | | | | | | | |
|---|---|-------------|--|--|--|--|--|
| 5420 | DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION | | | | | | |
| 5421 | DIAMETER_ERROR_RAT_NOT_ALLOWED | 29.272 [21] | | | | | |
| 5422 | DIAMETER_ERROR_EQUIPMENT_UNKNOWN | | | | | | |
| 5423 | DIAMETER_ERROR_UNKNOWN_SERVING_NODE | | | | | | |
| Note: The Expe | erimental Result Codes from 5424 to 5449 are reserved for the TS | S 29.272. | | | | | |
| 5450 | DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI ON | 20 272 [20] | | | | | |
| 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 | | | | | | |
| 5471 | DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME NT | 29.215 [22] | | | | | |
| Note: The Expe | erimental Result Codes from 5472 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. | | | | | |
| 5510 | DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI | 29.336 [28] | | | | | |
| 5511 | DIAMETER_ERROR_UNAUTHORIZED_SERVICE | | | | | | |
| Note: The Expe | erimental Result Codes from 5512 to 5529 are reserved for the TS | S 29.336. | | | | | |
| 5530 | DIAMETER_ERROR_INVALID_SME_ADDRESS | | | | | | |
| 5531 | DIAMETER_ERROR_SC_CONGESTION | 29.337 [29] | | | | | |
| 5532 | DIAMETER_ERROR_SM_PROTOCOL | | | | | | |
| Note: The Expe | erimental Result Codes from 5533 to 5549 are reserved for the TS | S 29.337. | | | | | |
| 5550 | DIAMETER_ERROR_ABSENT_USER | | | | | | |
| 5551 | DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS | | | | | | |
| 5552 | DIAMETER_ERROR_FACILITY_NOT_SUPPORTED | | | | | | |
| 5553 | DIAMETER_ERROR_ILLEGAL_USER | | | | | | |
| 5554 | DIAMETER_ERROR_ILLEGAL_EQUIPMENT | 29.338 [30] | | | | | |
| 5555 | DIAMETER_ERROR_SM_DELIVERY_FAILURE | | | | | | |
| 5556 | DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED | | | | | | |
| 5557 | DIAMETER_ERROR_SERVICE_BARRED | | | | | | |
| 5558 | DIAMETER_ERROR_MWD_LIST_FULL | | | | | | |
| | Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. | | | | | | |
| 5570 | DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS | 29.219 [26] | | | | | |
| Note: The Expe | erimental Result Codes from 5571 to 5589 are reserved for the TS | S 29.219. | | | | | |

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

| _ | I | | | _ | 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 | | | 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 | 009 | 1 | Addition of Gmb interface | 6.1.0 | 6.2.0 |
| 2004-12 | CN#26 | NP-040600 | 010 | 2 | Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces | 6.1.0 | 6.2.0 |
| 2004-12 | CN#26 | NP-040579 | 011 | | Gq interface allocations | 6.1.0 | 6.2.0 |
| 2004-12 | CN#26 | NP-040579 | 012 | | 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 | İ | |
| | | NP-050039 | | | Allocations for Gmb interface | İ | |
| | | NP-050039 | | | Allocations for MMS, MM10 Interface | 1 | |
| 2005-06 | CT#28 | CP-050088 | | | Gx interface allocation correction | 6.3.0 | 6.4.0 |
| 2000 00 | 017/20 | CP-050196 | | 1 | Addition of Maximum-Number-Accesses AVP | 0.0.0 | 0.1.0 |
| 2005-09 | CT#29 | CP-050440 | | 1 | Private identities on the Cx | 6.4.0 | 6.5.0 |
| _000000 | 311120 | CP-050310 | | <u> </u> | Addition of Pr reference point to TS 29.230 | J 3.4.0 | 0.0.0 |
| | | CP-050310 | | | Error code cleanup | ┪ | |
| | | CP-050310 | | | Addition of Rx ref. point and renaming of Experimental Result | ┨ | |
| | | CP-050310 | 0056 | | Codes | | |
| 2005-09 | CT#29 | CP-050317 | | | 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 | 1 | |
| | Í | CP-050612 | 0065 | | Reservation of AVP codes for 32.299 | 1 | |
| | ĺ | CP-050625 | 0066 | | Management of Sh subscriptions | Ī | |
| 2006-03 | CT#31 | CP-060073 | 0069 | | Adding data type of some of WLAN-related AVPs | 7.1.0 | 7.2.0 |
| | İ | CP-060084 | | | User-Data in the response to Sh-Subs-Notif | 1 | |
| | İ | CP-060084 | | 1 | New error indications for the Sh-Subs-Notif procedure | i | |
| 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 | 1 | |
| | | CP-060417 | | | Definition of specific Diameter codes for DSAI | 1 | |
| 2006-12 | CT#34 | CP-060566 | | 1 | Optimization of handling of Wildcarded PSIs | 7.4.0 | 7.5.0 |
| 2000 .2 | 0 0 . | CP-060562 | | | Addition of Diameter Error Code for Emergency Purposes | 1 | 1.0.0 |
| | | CP-060555 | | | Allocation of new AVP codes for Gmb | 1 | |
| | | CP-060555 | | | AVP code allocations for Rf and Ro interfaces | 1 | |
| | Ì | CP-060566 | | | Allocation of Success Result Code Range for Gi Interface | ┧ | |
| 2007-03 | CT#35 | CP-070020 | | | C3 requested addition of new AVP code values to 3GPP TS 29.230 | 7.5.0 | 7.6.0 |
| | | CD 070000 | 0000 | - | | 1 | |
| | | CP-070020 | | | Allocation of new AVP code for DSAI-Tag AVP | ┨ | |
| 2007.00 | CT#20 | CP-070020 | | | Allocation of Experimental-Result-Code AVP for Gi Interface | 760 | 770 |
| 2007-06 | CT#36 | CP-070318 | | | Diameter application ID for the Rel-7 Rx interface | 7.6.0 | 7.7.0 |
| | | CP-070312 | | | Experimental-Result-Codes for Gmb interface | - | |
| 0007.00 | OT#07 | CP-070312 | | <u> </u> | Correction of Diameter AVP code allocation | 770 | 7.0.0 |
| 2007-09 | CT#37 | CP-070527 | | | Application ID for Gx protocol | 7.7.0 | 7.8.0 |
| 2007-12 | CT#38 | CP-070743 | | | AVP code reservation for 32.299 in Rel-7 | 7.8.0 | 7.9.0 |
| | | | 0105 | | Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol | | |
| 2007-12 | CT#38 | CP-070755 | 0101 | 4 | AVP assignments to support SIP Digest Authentication | 7.9.0 | 8.0.0 |
| | İ | | 0103 | | AVP code reservation for 32.299 in Rel-8 | Ī | |
| 2008-03 | CT#39 | CP-080015 | | | 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 | 1 | |
| | İ | CP-080019 | | | Wildcarded Public User Identities | 1 | |
| 1 | | CP-080191 | | 1 | Correction on AVP code allocation reservation for TS 32.299 in | 1 | |
| | 1 | | 2442 | 4 | Rel-7 Correction on AVP code allocation reservation for TS 32.299 | 1 | |
| | ì | | | | IL OFFICEROD ON A VID CODE SHOCSTION FACATIVISTION FOR LS 32 200 | | 1 |
| 0000 00 | OT" 12 | CP-080204 | | | | 0.4.0 | 0.0.0 |
| 2008-06 | CT#40 | CP-080267 | 0117 | | A new Diameter Permanent Failure Code for Gx | 8.1.0 | 8.2.0 |
| 2008-09 | CT#41 | CP-080267 CP-080456 | 0117 0119 | 1 | A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal | 8.1.0 8.2.0 | 8.2.0 8.3.0 |
| | | CP-080267 | 0117 0119 0121 | 1 | A new Diameter Permanent Failure Code for Gx | | _ |

| 2011-09 | CT#53 | CP-110370 CP-110375 CP-110559 | 0227 | | PUR-Flags AVP AVP code alignment with 29.212 | 10.3.0 | 10.4. |
|--------------------|---------|-------------------------------------|-------|--|--|--------|-------|
| | | | | | | _ | |
| | | LCD 440270 | 10223 | 1 | AVP Code Allocation for Pre-paging | | - 1 |
| | | CP-110380 | | | MDT user consent | _ | |
| | | CP-110359 | | | MIPv4 security parameters on the STa and S6b interfaces | 1 | |
| | | CP-110347 | 0231 | | Add AVPs from QSPEC cleanup | _ | |
| 2011-06 | CT#52 | CP-110349 | | | Handling of RTR for Emergency Registration | 10.2.0 | 10.3. |
| | | CP-110087 | | | Relay Node Indicator AVPs | 1 | |
| | | CP-110087 | 0207 | 2 | Minimization of Drive Tests (MDT) | 1 | |
| | | CP-110054 | 0215 | | Essential correction on the value type of the ELP Application AVPs | | |
| 2011-03 | CT#51 | CP-110051 | | | PDP-Address correction | 10.1.0 | 10.2. |
| 0044.65 | OT::5: | CP-100846 | | 1 | S6a Error Diagnostic | 40.4.5 | 40.0 |
| | | CP-100688 | | | Periodic TAU/RAU timer in HSS subscription | 4 | |
| | | CP-100683 | | | Allocate codes for AVPs on LIPA | 1 | |
| | | CP-100687 | | | Allocate codes for AVPs on eMPS | 1 | |
| 2010-12 | CT#50 | CP-100699 | | | Enhanced SRVCC Subscriber Data | 10.0.0 | 10.1. |
| | | CP-100466 | 0199 | | AVP for Update-Eff feature | | |
| | | CP-100466 | 0198 | 2 | Location data including only serving node address | | |
| 2010-09 | CT#49 | CP-100465 | 0193 | | SIPTO Permission Indicator | 9.4.0 | 10.0. |
| | | CP-100464 | 0196 | | AVP Codes Allocation for PCC | 1 | |
| | | 120.00 | | | interfaces | | |
| 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 |
| | | CP-100277 | | 1 | New APVs in S6a protocol | 1 | |
| | | CP-100287 | | | SGmb Application ID | + | |
| _0 10-00 | O 1 π+0 | 01 -100203 | 0183 | | EPS state and location retrieval | 0.2.0 | 3.3.0 |
| 2010-06 | CT#48 | CP-100175 CP-100263 | | | AVP Codes for PCC | 9.2.0 | 9.3.0 |
| | | CP-100046 CP-100175 | | | Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface | - | |
| | | CP-100033 CP-100046 | | | One time notification AVP allocation | - | |
| | | CP-100236 | | 4 | EPS Subcsriber State and Location Information Request | - | |
| | | CP-100040 | | 4 | Error codes in 29.272 for Unknown MME | 4 | |
| | | CP-100048 | | 1 | AVPs in 29.272 for TADS support | 4 | |
| | | CP-100046 | | | Error codes in 29.172 for SLg | 1 | |
| | | CP-100036 | | | GPL_U support in TS 29.109 | 4 | |
| | | CP-100046 | | 1 | AVP code allocation for 29.172 | 4 | |
| | | 00 | | | Rel-9 | 4 | |
| | | CP-100034 | 0168 | 1 | Correction on AVP code allocation reservation for TS 32.299 in | | |
| 2010-03 | CT#47 | CP-100031 | | | Wildcarded Public Identity | 9.1.0 | 9.2.0 |
| 2040.00 | OT# 1= | OD 10000 | 0450 | 4 | Identifier | 0.1.0 | 0.0.0 |
| | | CP-090797 | 0167 | 1 | Introduction of SLg application related AVPs and Application | | |
| | | OD 2222= | 0166 | 4 | Missing AVP error codes | 4 | |
| | | | 0: | | Result codes | 4 | |
| | | | 0163 | 2 | Introduction of SLh application related AVPs and Experimental | | |
| | | | 0160 | | Session-Priority AVP | 1 | |
| | | CP-091032 | | | From GMLC-Address to GMLC-Number | 4 | |
| 2009-12 | CT#46 | CP-090800 | | 1 | ICS-Flag | 9.0.0 | 9.1.0 |
| 2009-09 | CT#45 | CP-090557 | | 4 | AVP code range for charging | 8.7.0 | 9.0.0 |
| 2000 00 | OT#4= | CP-090531 | | | Trace Depth per session | 076 | 0.0.0 |
| | | CP-090531 | | | Update of the AVP type for the User-Id | 4 | |
| | | CP-090530 | | <u> </u> | AVP code allocation for TS 29.212 | 4 | |
| 2009-09 | CT#45 | CP-090530 | | | Allocation of Experimental-Result-Codes for S9 protocol | 8.6.0 | 8.7.0 |
| 0000 00 | OT#45 | CP-090299 | | | S6b Application ID | 0.00 | 0 7 0 |
| | | CD 000000 | 0146 | | Removal of Requesting Node Type from AIR | 4 | |
| | | CP-090299 | | } | Diameter Command Codes for S6a/S6d/S13/S13" | - | |
| | | CP-090299 | | 1 | AVP code reservation for TS 32.299 | - | |
| 2009-06 | CT#44 | CP-090299 | | 4 | Update of the AVP Codes | 8.5.0 | 8.6.0 |
| 2009-03 | CT#43 | CP-090024 | | 1 | Error code allocation for authentication failure | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | | | AVPs for TS 29.273 | 8.4.0 | 8.5.0 |
| 0000 00 | OT#40 | OD 000004 | 04.44 | | application | 0.4.0 | 0.5.0 |
| 2009-03 | CT#43 | CP-090024 | 0140 | 1 | Location of Permanent Failure result code range for the S9 | 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 | | | AVP codes for S9 protocol | 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 | | | Applds for Gxx and S9 | 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-090044 | | 1 | Handling LCS Subscription Data | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090044 | | 1 | Update for ReadyForSM | 8.4.0 | 8.5.0 |
| 2008-12 | CT#42 | CP-080691 | | 1 | Diameter code assignments for 3GPP TS 29.273 | 8.3.0 | 8.4.0 |
| | CT#42 | CP-080691 | | _ | Diameter Protocol Codes Assignments for S6a/S6d/S13 | 8.3.0 | 8.4.0 |
| 2008-12 | | | | | | | |
| | | | | | New AVP Code Assignment for Forking Service Restoration | 8.2.0 | 8.3.0 |
| 2008-09 2008-12 | CT#41 | CP-080463 | | | Assignment) New AVP Code Assignment for Forking Service Restoration | 8.2.0 | 8.3.0 |

| | | CP-110554 | 0244 | 1 | AVP code alignment with 29.214 | | |
|-----------------|--------|------------------------|----------------------|----------|---|---------|----------|
| | | CP-110552 | | | Experimental Result Code Alignment with 29.061 | 1 | |
| | | CP-110555 | | | Failure code and AVP code alignment with 29.212 | | |
| | | CP-110722 | | 2 | Priviledged sender | | |
| 2011-09 | CT#53 | CP-110584 | 0234 | 1 | Add vSRVCC updates to the Diameter AVP code table | 10.4.0 | 11.0.0 |
| | | CP-110579 | | | AVP code alignment with 32.299 | | |
| | | CP-110555 | | | AVP code reservation for 29.212 | | |
| 2011-12 | CT#54 | CP-110812 | | 1 | SWx Restoration AVPs | 11.0.0 | 11.1.0 |
| | | CP-110812 | | | Sy and Sd Application IDs | | |
| | | CP-110775 | - | | New AVP codes for MBMS IP unicast encapsulation | | |
| | | CP-110775 | | | New AVP codes for MBMS IP multicast encapsulation | | |
| | | CP-110786 | | 1 | MME-Realm AVP code allocation | - | |
| | | CP-110811 | | | Equivalent PLMN CSG Subscription Request | - | |
| 0010.00 | OT#55 | CP-110781 | | | Restoration of Wildcarded-IMPU AVP | 44.4.0 | 44.0.0 |
| 2012-03 | CT#55 | CP-120025 | | 1 | Codes Allocation for AVPs on Initial Attach | 11.1.0 | 11.2.0 |
| | | CP-120038 | 0200 | | New AVP codes for Absolute Time of MBMS Data Transfer over SGmb | | |
| | | CP-120038 | 0201 | 1 | Allocating Diameter AVP codes for TS 29.219 and TS 29.212 | - | |
| 2012-06 | CT#56 | CP-120036 | | | Codes Allocation for AVPs on NPLI | 11.2.0 | 11.3.0 |
| 2012-00 | C1#30 | CP-120240 CP-120238 | | | Adding new Diameter AVPs to Diameter table to support Trusted | 11.2.0 | 11.3.0 |
| | | CF-120236 | 0294 | 1 | WLAN Access feature | | |
| | | CP-120225 | 0296 | 1 | Trust Relationship Indication | | |
| | | CP-120251 | | | Corrections to reference titles | | |
| | | CP-120251 | | | Diameter Code Allocation for TS 29.219 | | |
| | | CP-120247 | | | Network Name AVP codes | | |
| | | CP-120219 | | | Duplicated AVP names | | |
| 2012-09 | CT#57 | CP-120481 | | | PS additional number allocation | 11.3.0 | 11.4.0 |
| | | CP-120473 | | | SMS in MME/SGSN | - | |
| | | CP-120461 | | | AAA Failure Recovery AVP codes | | |
| | | CP-120474 | | | Transport Access Type AVP for BBAI | | |
| | | CP-120480 | 0307 | 1 | Local Time Zone | | |
| | | CP-120472 | 0308 | - | Allocating Application Identifier and command code for Tsp | 1 | |
| | | | | | interface | | |
| | | CP-120472 | 0309 | - | Application Identifier, Command Codes and AVP range for S6m | | İ |
| | | | | | interface | | |
| | | CP-120667 | | | GMLC-Name | | |
| | | | 0313 | 1 | Reference list correction to align with the corrected TS 29.212 | | |
| | | | | | title | | |
| 2012-12 | CT#58 | CP-120731 | | | T4 device triggering via IMS | 11.4.0 | 11.5.0 |
| | | CP-120731 | | | Codes and Identifier Allocation for T4 Specification | | |
| | | CP-120731 | | | AVP Code Allocation for 29.336 | - | |
| | | CP-120731 | | | Diameter AVP code value allocation in TS 29.368 | | |
| | | CP-120732 | 0319 | 2 | Application Identifier, Command Codes and AVP codes for SGd, | | |
| | | CD 400740 | 0004 | 4 | S6c | - | |
| | | CP-120716 CP-120742 | | | AVP name modification in TS 32.299 UE Time Zone AVP | - | |
| | | CP-120742 CP-120741 | | | | - | |
| | | CP-120741 | | I | Use of Flag instead of Enumerated AVPs Use of Flag instead of Enumerated AVPs | | |
| | | CP-120741 | | - | PSI direct routing with restoration procedures | - | |
| | - | CP-120743 | | - | EPS LocationInformation Support | - | |
| 2013-03 | CT#59 | CP-130026 | | 1 | Diameter error code for TS 29.219 | 11.5.0 | 11.6.0 |
| <u>_</u> U10-00 | 01#33 | CP-130026 | | - | MDT parameters | 11.5.0 | 11.0.0 |
| 2013-06 | CT#60 | CP-130288 | | 1 | Add new DER-S6b-flag AVP | 11.6.0 | 11.7.0 |
| _0.000 | 0.1100 | CP-130298 | | - | Failure Result Codes Allocation for TS 29.219 | | |
| | 1 | CP-130292 | | - | Diameter AVP codes for new TS 32.299 AVPs | 1 | |
| | 1 | CP-130279 | | | Definition of SS Status for Call Barring | 1 | |
| | | CP-130297 | | | Application Port Identifier | 1 | |
| | | CP-130295 | | | Restoration Priority during SGW and PGW restoration | | |
| | | | | | procedures | | |
| | İ | CP-130374 | 0335 | 3 | MTRR on Sh | | |
| 2013-09 | CT#61 | CP-130460 | | | Allocation of Diameter codes and identifiers for 29.212 and | 11.7.0 | 11.8.0 |
| | | <u> </u> | | | 29.215 | | |
| 2013-12 | CT#62 | CP-130600 | | | Allocation of Diameter codes for 32.299 | 11.8.0 | 11.9.0 |
| | | CP-130605 | 0377 | - | Allocation of Diameter codes for 29.212 | _ | 1 |
| | | CP-130605 | | | Command Code Value correction for TER/TEA | | |
| 2014-03 | CT#63 | CP-140023 | | 1 | Definition of WLAN-related AVPs | 11.9.0 | 11.10.0 |
| 2014-06 | CT#64 | CP-140231 | 0389 | <u> </u> | Adding Codes for 29.214 | 11.10.0 | 11.11.0 |
| 2017 00 | | CP-140257 | | <u> </u> | SS-Status AVP Definition | _ | 1 |
| 2014 00 | | CP-140236 | 0400 | I - | TWAN-BSSID AVP re-naming | 1 | <u> </u> |
| 2014 00 | | | | | | | 144 40 0 |
| | CT#66 | CP-140763 | 0415 | 1 | code definitions for 32.299 | 11.11.0 | 11.12.0 |
| | CT#66 | CP-140763 CP-140764 | 0415 0417 | 1 | MDT PLMN List | 11.11.0 | 11.12.0 |
| 2014-12 | CT#66 | CP-140763 | 0415 0417 0424 | 1 1 - | | 11.11.0 | 11.12.0 |

History

| | Document history | | | | | |
|----------|------------------|-------------|--|--|--|--|
| V11.4.0 | October 2012 | Publication | | | | |
| V11.5.0 | January 2013 | Publication | | | | |
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