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Foreword

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1 Scope

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

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

2 References

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

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

Diameter protocol".

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

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

| [17] | 3GPP TS 29.211: "Rx Interface and Rx/Gx signalling flows". |
|------|--|
| [18] | 3GPP TS 29.214: "Policy and Charging Control over Rx reference point". |
| [19] | 3GPP TS 29.212: "Policy and Charging Control over Gx reference point". |
| [20] | 3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces". |
| [21] | 3GPP TS 29.272: "MME and SGSN Related Interfaces Based on Diameter Protocol". |
| [22] | 3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point". |
| [23] | IETF RFC 5516: "Diameter Command Code Registration for Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)". |
| [24] | 3GPP TS 29.172: "Location Services; EPC LCS Protocol (ELP) between the GMLC and the MME; SLg interface". |
| [25] | 3GPP TS 29.173: "Location Services; Diameter-based SLh interface for Control Plane LCS". |
| | |

3 Definitions and abbreviations

3.1 Definitions

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

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

3.2 Abbreviations

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

AVP Attribute-Value-Pair
CR Change Request
LANA Internet Assigned Nu

IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

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

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

4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

| Application identifier | Application | 3GPP TS |
|------------------------|-----------------|---------------------------|
| 16777216 | 3GPP Cx/Px | 29.228 [1] and 29.229 [2] |
| 16777217 | 3GPP Sh/Ph | 29.328 [3] and 29.329 [4] |
| 16777218 | 3GPP Re | 32.296 [14] |
| 16777219 | 3GPP Wx | 29.234 [6] |
| 16777220 | 3GPP Zn | 29.109 [7] |
| 16777221 | 3GPP Zh | 29.109 [7] |
| 16777222 | 3GPP Gq | 29.209 [8] |
| 16777223 | 3GPP Gmb | 29.061 [13] |
| 16777224 | 3GPP Gx | 29.210 [15] |
| 16777225 | 3GPP Gx over Gy | 29.210 [15] |
| 16777226 | 3GPP MM10 | 29.140 [16] |
| 16777229 | 3GPP Rx | 29.211 [17] |
| 16777230 | 3GPP Pr | 29.234 [6] |
| 16777236 | 3GPP Rx | 29.214 [18] |
| 16777238 | 3GPP Gx | 29.212 [19] |
| 16777250 | 3GPP STa | 29.273 [20] |
| 16777251 | 3GPP S6a | 29.272 [21] |
| 16777252 | 3GPP S13/S13" | 29.272 [21] |
| 16777255 | 3GPP SLg | 29.172 [24] |
| 16777264 | 3GPP SWm | 29.273 [20] |
| 16777265 | 3GPP SWx | 29.273 [20] |
| 16777266 | 3GPP Gxx | 29.212 [19] |
| 16777267 | 3GPP S9 | 29.215 [22] |
| 16777268 | 3GPP Zpn | 29.109 [7] |
| 16777272 | 3GPP S6b | 29.273 [20] |
| 16777291 | 3GPP SLh | 29.173 [25] |
| 16777292 | 3GPP SGmb | 29.061 [13] |

5 Command codes

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

5.1 Command codes allocated for 3GPP

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

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

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

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

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

6 Vendor identifier

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

6.1 3GPP"s vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

| AVP 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] |
| | 3GPP-WLAN-QoS-Filter-Support | OctetString | |
| | The AVP codes from 1 to 255 are reserved for backwards compatibil ites (See TS 29.061 [13] and TS 29.234 [6]) | ity with 3GPP RADIUS Ve | ndor Specific |
| | The AVP codes from 256 to 299 are reserved for future use. | | |
| | Authentication-Method | Enumerated | |
| 301 | Authentication-Information-SIM | OctetString | |
| 302 | Authorization -Information-SIM | OctetString | |
| | WLAN-User-Data | Grouped | |
| 304 | Charging-Data | Grouped | |
| | WLAN-Access | Enumerated | |
| 306 | WLAN- 3GPP-IP-Access | Enumerated | |
| | APN-Authorized | Grouped | |
| | APN-Id | | |
| | APN-Barring-Type | Enumerated | 00 00 4 [0] |
| | WLAN-Direct-IP-Access | Enumerated | 29.234 [6] |
| | Session-Request-Type | Enumerated | |
| | Routing-Policy | IPFilterRule | _ |
| | Max-Requested-Bandwidth | OctetString | |
| | Charging-Characteristics | Integer | |
| | Charging-Nodes | Grouped | |
| | Primary-OCS-Charging-Function-Name | DiameterIdentity | |
| | Secondary-OCS-Charging-Function-Name | DiameterIdentity | |
| | 3GPP-AAA-Server-Name | DiameterIdentity | |
| | Maximum-Number-Accesses | Unsigned32 | |
| | The AVP codes from 320 to 399 are reserved for TS 29.234 | Grioigriodoz | |
| | GBA-UserSecSettings | OctetString | |
| | Transaction-Identifier | OctetString | _ |
| | NAF-Hostname | OctetString | |
| | GAA-Service-Identifier | OctetString | |
| 404 | Key-Expiry Time | Time | |
| 405 | MÉ-Key-Material UICC-Key-Material | OctetString OctetString | |
| | GBA_U-Awareness-Indicator | Enumerated | |
| | BootstrapInfoCreationTime | Time | _ |
| | GUSS-Timestamp | Time | |
| 410 | GBA-Type | Enumerated | 29.109 [7] |
| 411 | UE-Id | OctetString | |
| 412 | UE-Id-Type | Enumerated | |
| | UICC-App-Label | OctetString | |
| | UICC-ME Progressed Koy Lifetime | Enumerated Time | |
| 413 | Requested-Key-Lifetime Private-Identity-Request | Enumerated | |
| | GBA-Push-Info | OctetString | 1 |
| | 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 | | |
| | Abort-Cause | Enumerated | _ |
| | Access-Network-Charging-Address | Address | _ |
| | 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 | |

| _ | | , | |
|-----|---|-----------------------|------------|
| | Flow-Number | Unsigned32 | |
| | Flows | Grouped | |
| | Flow-Status | Enumerated | |
| | Flow-Usage | Enumerated | |
| | Specific-Action | Enumerated | |
| | Max-Requested-Bandwidth | Unsigned32 | |
| 515 | Max-Requested-Bandwidth-DL | Unsigned32 | |
| 516 | Max-Requested-Bandwidth-UL | Unsigned32 | |
| | Media-Component-Description | Grouped | |
| | Media-Component-Number | Unsigned32 | |
| 519 | Media-Sub-Component AVP | Grouped | |
| 520 | Media-Type | Enumerated | |
| 521 | RR-Bandwidth | Unsigned32 | |
| 522 | RS-Bandwidth | Unsigned32 | |
| 523 | SIP-Forking-Indication | Enumerated | |
| 524 | Codec-Data | OctetString | |
| 525 | Service-URN | OctetString | |
| 526 | Acceptable-Service-Info | Grouped | |
| | Service-Info-Status | Enumerated | |
| | MPS-Identifier | OctetString | |
| | AF-Signalling-Protocol | Enumerated | |
| | Sponsored-Connectivity-Data | Grouped | |
| 531 | Sponsor-Identity | OctetString | |
| 532 | Application-Service-Provider-Identity | OctetString | |
| | reserved | - | |
| | Min-Requested-Bandwidth-DL | Unsigned32 | |
| | Min-Requested-Bandwidth-UL | Unsigned32 | |
| | The AVP codes from 536 to 599 are reserved for TS 29.209, TS 29.2 | | |
| | Visited-Network-Identifier | OctetString | |
| | Public-Identity 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 | |
| | Charging-Information | Grouped | 29.229 [2] |
| | 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 | |
| | Supported-Applications | Grouped | |
| | Associated-Identities | | |
| | | Grouped | |
| | Originating-Request | Enumerated | |
| | Wildcarded-Public-Identity | UTF8String Grouped | |
| | | rarouped | |
| | SIP-Digest-Authenticate Wildcarded-IMPU | UTF8String | |

| | | 1 | |
|---|---|--|------------|
| | UAR-Flags | Unsigned32 | |
| | Loose-Route-Indication | Enumerated | |
| | SCSCF-Restoration-Info | Grouped | |
| | Path | OctetString | |
| | Contact | OctetString | |
| | Subscription-Info | Grouped | |
| | Call-ID-SIP-Header | OctetString | |
| | From-SIP-Header | OctetString | |
| | To-SIP-Header | OctetString | |
| | Record-Route | OctetString | |
| 647 | Associated-Registered-Identities | Grouped | |
| 648 | Multiple-Registration-Indication | Enumerated | |
| 649 | Restoration-Info | Grouped | |
| 650 | Session-Priority | Enumerated | |
| 651 | Identity-with-Emergency-Registration | Grouped | |
| 652 | Priviledged-Sender-Indication | Enumerated | |
| Note: | The AVP codes from 653 to 699 are reserved for TS 29.229. | | |
| 700 | User-Identity | Grouped | |
| 701 | MSISDN | OctetString | |
| 702 | User-Data | OctetString | |
| 703 | Data-Reference | Enumerated | |
| | Service-Indication | OctetString | |
| | Subs-Req-Type | Enumerated | |
| | Requested-Domain | Enumerated | |
| 707 | Current-Location | Enumerated | |
| 708 | Identity-Set | Enumerated | 00 000 [4] |
| | Expiry-Time | Time | 29.329 [4] |
| | Send-Data-Indication | Enumerated | |
| | DSAI-Tag | OctetString | |
| | One-Time-Notification | Enumerated | |
| | Requested-Nodes | Unsigned32 | |
| | Serving-Node-Indication | Enumerated | |
| | Repository-Data-ID | Grouped | |
| | Sequence-Number | Unsigned32 | |
| | | | |
| 717 | | | |
| | Pre-paging-Supported | Enumerated | |
| Note: | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. | | |
| Note: | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. | Enumerated | |
| Note: Note: 823 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type | Enumerated Grouped | |
| Note: Note: 823 824 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method | Enumerated Grouped UTF8String | |
| Note: Note: 823 824 825 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event | Grouped UTF8String UTF8String | |
| Note: Note: 823 824 825 826 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type | Grouped UTF8String UTF8String UTF8String | |
| Note: Note: 823 824 825 826 827 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length | Grouped UTF8String UTF8String | |
| Note: Note: 823 824 825 826 827 828 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition | Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 | |
| Note: Note: 823 824 825 826 827 828 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length | Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated | |
| Note: Note: 823 824 825 826 827 828 829 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id | Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String | |
| Note: Note: 823 824 825 826 827 828 829 830 831 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address | Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String | |
| Note: Note: 823 824 825 826 827 828 829 830 831 832 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address | Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String | |
| Note: Note: 823 824 825 826 827 828 829 830 831 832 833 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps | Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String | |
| Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp | Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String | |
| Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp | Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String | |
| Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server | Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String | 32.299 [5] |
| Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address | Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String | 32.299 [5] |
| Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-provided-called-party-address Inter-Operator-Identifier | Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String UTF8String | 32.299 [5] |
| Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI | Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String UTF8String UTF8String | 32.299 [5] |
| Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI | Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String UTF8String UTF8String UTF8String UTF8String | 32.299 [5] |
| Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier | Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String | 32.299 [5] |
| Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description | Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String | 32.299 [5] |
| Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp SIP-Response-Timestamp Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Component | Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String | 32.299 [5] |
| Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Name | Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String | 32.299 [5] |
| Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Name SDP-Media-Description | Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String | 32.299 [5] |
| Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Name SDP-Media-Description CG-Address | Grouped UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String | 32.299 [5] |
| Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Name SDP-Media-Description CG-Address GGSN-Address | Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String | 32.299 [5] |
| Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Component SDP-Media-Description CG-Address GGSN-Address Served-Party-IP-Address | Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String Grouped Time Time UTF8String Address Address Address | 32.299 [5] |
| Note: Note: Note: 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 840 841 842 843 844 845 846 847 | Pre-paging-Supported The AVP codes from 718 to799 are reserved for TS 29.329. The AVP codes from 800 to 822 are reserved for TS 32.299. Event-Type SIP-Method Event Content-Type Content-Length Content-Disposition Role-of-Node User-Session-Id Calling-Party-Address Called-Party-Address Time-Stamps SIP-Request-Timestamp SIP-Response-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address Inter-Operator-Identifier Originating-IOI Terminating-IOI IMS-Charging-Identifier SDP-Session-Description SDP-Media-Name SDP-Media-Description CG-Address GGSN-Address | Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 UTF8String Enumerated UTF8String | 32.299 [5] |

| 887 Irrunk-Group-Id | BSZ Incoming-Trunk-Group-Id | | - | | |
|--|---|----------|---------------------------|------------|-------------|
| SST Surgione UTF8String | 653 Outgoing-Trunk-Group-Id UTF8String 654 Beater's Service OctelString 655 Associated-URI UTF8String 656 Associated-URI UTF8String 657 Charged-Party UTF8String 658 Poc-Cortorling-Address UTF8String 659 Poc-Cortorling-Address UTF8String 659 Cause Grouped 661 Cause-Code Integer32 661 Cause-Code Integer32 662 Node-Trunklorality Enumerated 663 Service-Specific-Data UTF8String 664 Originator Enumerated 665 PS-Furish-Charging-Information Grouped 666 PS-Free-Format-Data Catalisting 667 PS-Append-Free-Format-Data Enumerated 668 Ilime-Quota-Threshold Unsigned32 670 Trigger-Type Enumerated 671 Quota-Holding-Time Unsigned32 672 Reporting-Reason Enumerated 673 Service-Information Grouped 674 PS-Information Grouped 675 IWAN-Information Grouped 676 IWS-Information Grouped | | | | |
| Basfar Service Octestrring | Bear | | | | |
| Service-Id | 8556 Associated-URI UTF8String 857 Charged-Party UTF8String 858 POC-Corrupling-Address UTF8String 859 POC-Corup-Name UTF8String 859 POC-Corup-Name UTF8String 860 Cause Grouped 861 Cause-Code Integer32 862 Node-Functionality Enumerated 863 Service-Specific-Data UTF8String 864 Originator Enumerated 865 PS-Fer-Fer-Format-Data Grouped 866 PS-Fer-Fer-Format-Data Enumerated 867 PS-Append-Free-Format-Data Enumerated 867 PS-Append-Free-Format-Data Enumerated 867 Unsigned32 Volume-Quota-Threshold Unsigned32 868 Fire-Cubra-Threshold Unsigned32 870 Trigger-Type Enumerated 871 Total Prince Unsigned32 872 Reporting-Reason Enumerated 873 PS-Information | | | | |
| SSG Associated-URI | 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Controlling-Address UTF8String 860 Cause Grouped 861 Cause-Code Integer22 862 Node-Functionality Enumerated 863 Service-Specific-Data UTF8String 864 Originator Enumerated 865 PS-Free-Format-Data Grouped 866 PS-Free-Format-Data Detection 867 PS-Append-Free-Format-Data Enumerated 868 PS-Free-Format-Data Unsigned32 867 PS-Append-Free-Format-Data Enumerated 968 Time-Quota-Threshold Unsigned32 970 Trigger-Type Enumerated 971 Quota-Holding-Time Unsigned32 972 Trigger-Type Enumerated 973 Reporting-Reason Enumerated 974 Reporting-Reason Enumerated 975 Reporting-Reason Enumerated 976 Reporting-Reason Enumerated 977 MS-Information Grouped 978 PS-Information Grouped | | | | |
| 1857 Charged-Party | 657 Charged-Party UTF8String 858 PoC-Group-Name UTF8String 859 PoC-Group-Name UTF8String 850 Cause Grouped 861 Cause-Code Integer32 862 Node-Functionality Enumerated 863 Service-Specific-Data UTF8String 863 Service-Specific-Data UTF8String 865 PS-Free-Format-Data Crusped 866 PS-Free-Format-Data CutsString 867 PS-Append-Free-Format-Data Enumerated 868 PS-Impend-Free-Format-Data Enumerated 867 PS-Append-Free-Format-Data Unsigned32 870 Tringger-Type Enumerated 871 Inter-Quota-Threshold Unsigned32 872 Reporting-Resson Enumerated 873 Service-Information Grouped 874 PS-Information Grouped 875 WLAR-Information Grouped 876 WLAR-Information Grouped 877 MMS-Information Grouped 878 Po-Po-Information Grouped 879 Po-C-Information Grouped 880 MBMS-Information Grouped | | | | |
| 1585 POC-Controlling-Address | 858 P.OC-Controlling-Address UTF8String 859 P.OC-Group-Name UTF8String 860 Cause Grouped 861 Cause-Code Integer32 862 Sevice-Specific-Data UTF8String 863 Sevice-Specific-Data UTF8String 864 Originator Enumerated 865 PS-Free-Format-Data OctetString 866 PS-Free-Format-Data OctetString 867 IPS-Append-Free-Format-Data Enumerated 867 IPS-Append-Free-Format-Data Enumerated 868 Time-Quota-Threshold Unsigned32 869 Volume-Quota-Threshold Unsigned32 870 Trigger-Type Enumerated 871 Guota-Holding-Time Unsigned32 872 Reporting-Reason Enumerated 873 Service-Information Grouped 874 PS-Information Grouped 875 WLAN-Information Grouped 876 INS-Information Grouped 877 Robin-Growal Information Grouped 878 PC-Grifformation Grouped 879 PC-Information Grouped 871 CS-Information Grouped <td></td> <td></td> <td></td> <td></td> | | | | |
| BSS POC-Group-Name | B99 PoC-Group-Name | | | | |
| B60 Cause | B60 Cause | | | | |
| B81 Cause-Code Integer32 B82 Mode-Functionality Enumerated B63 Service-Specific-Data UTF8String B64 Originator Enumerated B63 Service-Specific-Data UTF8String B64 Originator Enumerated B65 PS-Fureinsh-Charging-Information Grouped Gr | B61 Cause-Code | | | | |
| B62 | | | | | |
| B63 Service-Specific-Data UTF8String | B63 Service-Specific-Data | | | ŭ | |
| B65 PS-Furish-Charging-Information Grouped | B64 Originator Enumerated B65 PS-Free-Format-Data OctotString B66 PS-Free-Format-Data Charles B67 PS-Append-Free-Format-Data Enumerated B68 Time-Quota-Threshold Unsigned32 B69 Volume-Quota-Threshold Unsigned32 B70 Trigger-Type Enumerated B70 Trigger-Type Enumerated B71 Quota-Holding-Time Unsigned32 B72 Reporting-Reason Enumerated B73 Service-Information Grouped B74 PS-Information Grouped B75 WLAN-Information Grouped B76 MS-Information Grouped B77 MMS-Information Grouped B78 LCS-Information Grouped B78 LCS-Information Grouped B79 B70 Trigger Grouped B70 Trigger Grouped B71 Trigger Grouped B72 Trigger Grouped B73 Trigger Grouped B74 Trigger Grouped B75 Trigger Grouped B76 Grouped Grouped B77 Trigger Grouped B78 Trigger Grouped Grouped B79 Grouped Grouped Grouped B70 Trigger Grouped Grouped B71 Trigger Grouped Grouped B72 Grouped Grouped Grouped Grouped B73 Grouped Grouped Grouped Grouped Grouped Grouped B77 Grouped Gro | | | | |
| B85 PS-Furnish-Charging-Information Grouped | B65 PS-Furnish-Charging-Information Grouped | | <u>'</u> | | |
| B66 PS-Free-Format-Data | B66 PS-Free-Format-Data | | | | |
| B87 PS-Append-Free-Format-Data | B67 PS-Append-Free-Format-Data | | | | |
| 868 Time-Quota-Threshold Unsigned32 869 Volume-Quota-Threshold Unsigned32 870 Trigger-Type Enumerated 871 Quota-Holding-Time Unsigned32 872 Reporting-Reason Enumerated 873 Service-Information Grouped 874 PS-Information Grouped 875 WLAN-Information Grouped 876 IMS-Information Grouped 877 MMS-Information Grouped 878 LCS-Information Grouped 879 PoC-Information Grouped 880 MBMS-Information Grouped 881 Quota-Consumption-Time Unsigned32 882 Media-Initiator-Flag Enumerated 883 PoC-Server-Role Enumerated 884 POC-Session-Type Enumerated 885 Number-Of-Participants Unsigned32 886 Originator-Address Grouped 887 Participants-Involved UTF8String 888 Expires Unsigned32 889 Message-Body Grouped 890 WAG-Address Address 891 WAG-PLMN-Id OctestString 892 WLAN-W | 868 ITime-Quota-Threshold Unsigned32 869 Volume-Quota-Threshold Unsigned32 870 Trigger-Type Enumerated 871 Quota-Holding-Time Unsigned32 872 Reporting-Reason Enumerated 873 Service-Information Grouped 874 PS-Information Grouped 875 MLAN-Information Grouped 876 IMS-Information Grouped 877 MMS-Information Grouped 878 ID-Information Grouped 880 MBMS-Information Grouped 881 Quota-Consumption-Time Unsigned32 882 Media-Initiator-Flag Enumerated 883 PoC-Session-Type Enumerated 884 PoC-Session-Type Enumerated 885 PoC-Session-Type Enumerated 886 Originator-Address Grouped 887 Participants-Involved UTF8String 888 Expires Unsigned32 889 Message-Body Grouped 890 WAG-Address Address 891 WAN-Radio-Container Grouped 892 WLAN-Radio-Container Grouped 893 WLA | | | ŭ | |
| Resp | 1669 Volume-Quota-Threshold | | | | |
| B70 Trigger-Type | | | | Ŭ | |
| 871 Quota-Holding-Time Unsigned32 872 Reporting-Reason Enumerated 873 Service-Information Grouped 874 PS-Information Grouped 875 WLAN-Information Grouped 876 IMS-Information Grouped 877 MMS-Information Grouped 878 LCS-Information Grouped 879 PcC-Information Grouped 880 MBMS-Information Grouped 881 Quota-Consumption-Time Unsigned32 882 Media-Initiator-Flag Enumerated 883 PoC-Server-Role Enumerated 884 PoC-Session-Type Enumerated 885 Number-OI-Participants Unsigned32 886 Originator-Address Grouped 887 Participants-Involved UTF8String 888 Expires Unsigned32 889 Message-Body Grouped 890 MgAP-LMN-Id OctetString 891 | | | | | |
| Reporting-Reason | 872 Reporting-Reason | | | | |
| 874 PS-Information Grouped | Service-Information | | | Ŭ | |
| 875 WLAN-Information Grouped | PS-Information | | | | |
| 876 IMS-Information | B75 WLAN-Information | | | | |
| B76 IMS-Information | 876 IMS-Information Grouped 877 MMS-Information Grouped 878 LCS-Information Grouped 879 PoC-Information Grouped 880 MBMS-Information Grouped 880 Louta-Consumption-Time Unsigned32 881 Quota-Consumption-Time Unsigned32 882 Media-Initiator-Flag Enumerated 883 PoC-Server-Role Enumerated 884 PoC-Session-Type Enumerated 885 Number-Or-Participants Unsigned32 886 Originator-Address Grouped 887 Participants-Involved UTF8String 888 Expires Unsigned32 889 Message-Body Grouped 890 WAG-Address Address 891 WAG-PLMN-Id OctetString 892 WLAN-Radio-Container Grouped 893 WLAN-Technology Unsigned32 894 WLAN-Us-Local-IPAddress Address 895 PDG-Charging-Id Unsigned32 896 PDG-Charging-Id Unsigned32 897 Address-Data UTF8String 898 Address-Domain Grouped 899 Address- | | | | |
| 877 MMS-Information Grouped 878 LCS-Information Grouped 879 PoC-Information Grouped 880 MBMS-Information Grouped 881 Quota-Consumption-Time Unsigned32 882 Media-Initiator-Flag Enumerated 883 PoC-Server-Role Enumerated 885 Number-Of-Participants Unsigned32 886 Originator-Address Grouped 887 Participants-Involved UTF8String 888 Expires Unsigned32 889 Message-Body Grouped 890 WAG-Address Address 891 WAG-PUMN-Id OctetString 892 WLAN-Radio-Container Grouped 893 WLAN-Technology Unsigned32 894 WLAN-UE-Local-IPAddress Address 895 PDG-Address Address 896 PDG-Charging-Id Unsigned32 897 Address-Domain Grouped 898 Address-Domain Grouped 899 Address-Type Enumerated 900 TMGI OctectString 901 Required-MBMS-Bearer-Capabilities UTF8String 905 Alternative-APN | B77 MMS-Information Grouped | | | | |
| 878 LCS-Information Grouped 879 PoC-Information Grouped 880 MBMS-Information Grouped 881 Quota-Consumption-Time Unsigned32 882 Media-Initiator-Flag Enumerated 883 PoC-Server-Role Enumerated 884 PoC-Session-Type Enumerated 885 Number-OF-Participants Unsigned32 866 Originator-Address Grouped 887 Participants-Involved UTF8String 888 Expires Unsigned32 889 Message-Body Grouped 890 WAG-Address Address 891 WAG-PLMN-Id OctetString 892 WLAN-Radio-Container Grouped 893 WLAN-Technology Unsigned32 894 WLAN-UE-Local-IPAddress Address 895 PDG-Address Address 896 PDG-Charging-Id Unsigned32 897 Address-Data UTF8String 898 Address-Domain Grouped 899 Address-Type Enumerated 900 TMGI OctectString 901 TMGI OctectString 902 MBMS-Service-Area Oc | 878 I.CS-Information Grouped 879 PoC-Information Grouped 880 MBMS-Information Grouped 881 Quota-Consumption-Time Unsigned32 882 Media-Initiator-Flag Enumerated 883 PoC-Server-Role Enumerated 884 PoC-Session-Type Enumerated 885 Number-Of-Participants Unsigned32 886 Originator-Address Grouped 887 Participants-Involved UTF8String 888 Expires Unsigned32 889 Message-Body Grouped 890 WAG-Address Address 891 WAG-PLMN-Id OctelString 892 WLAN-Radio-Container Grouped 893 WLAN-Technology Unsigned32 894 WLAN-UE-Local-IPAddress Address 895 PDG-Address Address 896 PDG-Charging-Id Unsigned32 897 Address-Data UTF8String 898 Address-Domain Grouped 899 Address-Domain Grouped 890 PMS-StartStop-Indication Enumerated 901 Required-MBMS-Bearer-Capabilities UTF8String | | | | |
| 879 PoC-Information Grouped 880 MBMS-Information Grouped 881 Quota-Consumption-Time Unsigned32 882 Media-Initiator-Flag Enumerated 883 PoC-Server-Role Enumerated 884 PoC-Session-Type Enumerated 885 Number-Of-Participants Unsigned32 886 Originator-Address Grouped 887 Participants-Involved UTF8String 888 Expires Unsigned32 889 Message-Body Grouped 890 WAG-PLMN-Id OctetString 891 WAG-PLMN-Id OctetString 892 WLAN-Radio-Container Grouped 893 WLAN-Technology Unsigned32 894 WLAN-UE-Local-IPAddress Address 895 PDG-Address Address 896 PDG-Charging-Id Unsigned32 897 Address-Domain Grouped 898 Address-Domain Grouped 899 | 879 PoC-Information | | | | |
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| 896PDG-Charging-IdUnsigned32897Address-DataUTF8String898Address-DomainGrouped899Address-TypeEnumerated900TMGIOctectString901Required-MBMS-Bearer-CapabilitiesUTF8String902MBMS-StartStop-IndicationEnumerated903MBMS-Service-AreaOctectString904MBMS-Session-DurationUnsigned32905Alternative-APNUTF8String906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String | 896PDG-Charging-IdUnsigned32897Address-DataUTF8String898Address-DomainGrouped899Address-TypeEnumerated900TMGIOctectString901Required-MBMS-Bearer-CapabilitiesUTF8String902MBMS-StartStop-IndicationEnumerated903MBMS-Service-AreaOctectString904MBMS-Session-DurationUnsigned32905Alternative-APNUTF8String906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String | | | | |
| 897 Address-Data 898 Address-Domain 899 Address-Type 890 TMGI 900 TMGI 901 Required-MBMS-Bearer-Capabilities 902 MBMS-StartStop-Indication 903 MBMS-Service-Area 904 MBMS-Session-Duration 905 Alternative-APN 906 MBMS-Service-Type 907 MBMS-2G-3G-Indicator 908 MBMS-Session-Identity 909 RAI 909 RAI 909 UTF8String 909 CotetString | 897 Address-Data 898 Address-Domain 899 Address-Type Enumerated 900 TMGI 901 Required-MBMS-Bearer-Capabilities 902 MBMS-StartStop-Indication 903 MBMS-Service-Area 904 MBMS-Session-Duration 905 Alternative-APN 906 MBMS-Service-Type 907 MBMS-Service-Type 908 MBMS-Service-Type 909 RAI 908 MBMS-Session-Identity 909 RAI 910 Additional-MBMS-Trace-Info 911 MBMS-Time-To-Data-Transfer 912 MBMS-Session-Identity-Repetition-Number 913 MBMS-Required-QoS 914 MBMS-Required-QoS 915 MBMS-Required-QoS 916 MBMS-Required-QoS 917 MBMS-Required-QoS 918 MBMS-Required-QoS 919 MBMS-Required-QoS 910 MBMS-Required-QoS 910 MBMS-Required-QoS 910 MBMS-Required-QoS 911 MBMS-Required-QoS 912 MBMS-Required-QoS 913 MBMS-Required-QoS 914 MBMS-Required-QoS 915 MBMS-Required-QoS 916 MBMS-Required-QoS 917 MBMS-Required-QoS 918 MBMS-Required-QoS 919 MBMS-Required-QoS 910 MBMS-Required-QoS 910 MBMS-Required-QoS 911 MBMS-Required-QoS 911 MBMS-Required-QoS 912 MBMS-Required-QoS 913 MBMS-Required-QoS | | | | |
| 898Address-DomainGrouped899Address-TypeEnumerated900TMGIOctectString901Required-MBMS-Bearer-CapabilitiesUTF8String902MBMS-StartStop-IndicationEnumerated903MBMS-Service-AreaOctectString904MBMS-Session-DurationUnsigned32905Alternative-APNUTF8String906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String | 898Address-DomainGrouped899Address-TypeEnumerated900TMGIOctectString901Required-MBMS-Bearer-CapabilitiesUTF8String902MBMS-StartStop-IndicationEnumerated903MBMS-Service-AreaOctectString904MBMS-Session-DurationUnsigned32905Alternative-APNUTF8String906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String | | | | |
| 899 Address-Type Enumerated 900 TMGI OctectString 901 Required-MBMS-Bearer-Capabilities UTF8String 902 MBMS-StartStop-Indication Enumerated 903 MBMS-Service-Area OctectString 904 MBMS-Session-Duration Unsigned32 905 Alternative-APN UTF8String 906 MBMS-Service-Type Enumerated 907 MBMS-2G-3G-Indicator Enumerated 908 MBMS-Session-Identity OctetString 909 RAI UTF8String | 899 Address-Type Enumerated 900 TMGI OctectString 901 Required-MBMS-Bearer-Capabilities UTF8String 902 MBMS-StartStop-Indication Enumerated 903 MBMS-Service-Area OctectString 904 MBMS-Session-Duration Unsigned32 905 Alternative-APN UTF8String 906 MBMS-Service-Type Enumerated 907 MBMS-2G-3G-Indicator Enumerated 908 MBMS-Session-Identity OctetString 909 RAI UTF8String 910 Additional-MBMS-Trace-Info OctetString 911 MBMS-Time-To-Data-Transfer Unsigned32 912 MBMS-Session-Identity-Repetition-Number Unsigned32 913 MBMS-Required-QoS UTF8String | | | | |
| 900 TMGI OctectString 901 Required-MBMS-Bearer-Capabilities UTF8String 902 MBMS-StartStop-Indication Enumerated 903 MBMS-Service-Area OctectString 904 MBMS-Session-Duration Unsigned32 905 Alternative-APN UTF8String 906 MBMS-Service-Type Enumerated 907 MBMS-2G-3G-Indicator Enumerated 908 MBMS-Session-Identity OctetString 909 RAI UTF8String | 900 TMGI OctectString 901 Required-MBMS-Bearer-Capabilities UTF8String 902 MBMS-StartStop-Indication Enumerated 903 MBMS-Service-Area OctectString 904 MBMS-Session-Duration Unsigned32 905 Alternative-APN UTF8String 906 MBMS-Service-Type Enumerated 907 MBMS-2G-3G-Indicator Enumerated 908 MBMS-Session-Identity OctetString 909 RAI UTF8String 910 Additional-MBMS-Trace-Info OctetString 911 MBMS-Time-To-Data-Transfer Unsigned32 912 MBMS-Session-Identity-Repetition-Number Unsigned32 913 MBMS-Required-QoS | | | | |
| 901 Required-MBMS-Bearer-Capabilities UTF8String 902 MBMS-StartStop-Indication Enumerated 903 MBMS-Service-Area OctectString 904 MBMS-Session-Duration Unsigned32 905 Alternative-APN UTF8String 906 MBMS-Service-Type Enumerated 907 MBMS-2G-3G-Indicator Enumerated 908 MBMS-Session-Identity OctetString 909 RAI UTF8String | 901Required-MBMS-Bearer-CapabilitiesUTF8String902MBMS-StartStop-IndicationEnumerated903MBMS-Service-AreaOctectString904MBMS-Session-DurationUnsigned32905Alternative-APNUTF8String906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String | 899 | Address-Type | Enumerated | |
| 901 Required-MBMS-Bearer-Capabilities UTF8String 902 MBMS-StartStop-Indication Enumerated 903 MBMS-Service-Area OctectString 904 MBMS-Session-Duration Unsigned32 905 Alternative-APN UTF8String 906 MBMS-Service-Type Enumerated 907 MBMS-2G-3G-Indicator Enumerated 908 MBMS-Session-Identity OctetString 909 RAI UTF8String | 901Required-MBMS-Bearer-CapabilitiesUTF8String902MBMS-StartStop-IndicationEnumerated903MBMS-Service-AreaOctectString904MBMS-Session-DurationUnsigned32905Alternative-APNUTF8String906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String | <u> </u> | | | |
| 902 MBMS-StartStop-Indication Enumerated 903 MBMS-Service-Area OctectString 904 MBMS-Session-Duration Unsigned32 905 Alternative-APN UTF8String 906 MBMS-Service-Type Enumerated 907 MBMS-2G-3G-Indicator Enumerated 908 MBMS-Session-Identity OctetString 909 RAI UTF8String | 902MBMS-StartStop-IndicationEnumerated903MBMS-Service-AreaOctectString904MBMS-Session-DurationUnsigned32905Alternative-APNUTF8String906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String | | | | |
| 903 MBMS-Service-Area OctectString 904 MBMS-Session-Duration Unsigned32 905 Alternative-APN UTF8String 906 MBMS-Service-Type Enumerated 907 MBMS-2G-3G-Indicator Enumerated 908 MBMS-Session-Identity OctetString 909 RAI UTF8String | 903MBMS-Service-AreaOctectString904MBMS-Session-DurationUnsigned32905Alternative-APNUTF8String906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String | | | | |
| 904 MBMS-Session-Duration Unsigned32 905 Alternative-APN UTF8String 906 MBMS-Service-Type Enumerated 907 MBMS-2G-3G-Indicator Enumerated 908 MBMS-Session-Identity OctetString 909 RAI UTF8String | 904MBMS-Session-DurationUnsigned32905Alternative-APNUTF8String906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String | | | | |
| 905 Alternative-APN UTF8String 906 MBMS-Service-Type Enumerated 907 MBMS-2G-3G-Indicator Enumerated 908 MBMS-Session-Identity OctetString 909 RAI UTF8String | 905Alternative-APNUTF8String906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String | | | | |
| 906 MBMS-Service-Type Enumerated 907 MBMS-2G-3G-Indicator Enumerated 908 MBMS-Session-Identity OctetString 909 RAI UTF8String | 906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String | | | | |
| 907MBMS-2G-3G-IndicatorEnumerated29.061 [13]908MBMS-Session-IdentityOctetString909RAIUTF8String | 907 MBMS-2G-3G-Indicator Enumerated 29.061 [13] 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 | | | | |
| 908 MBMS-Session-Identity OctetString 909 RAI UTF8String | 908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String | | | | |
| 909 RAI UTF8String | 909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String | | | | 29.061 [13] |
| | 910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String | | | | |
| 910 Additional-MBMS-Trace-Info OctetString | 911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String | | | | |
| | 912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String | | | | |
| | 913 MBMS-Required-QoS UTF8String | | | | |
| | | | | | |
| | LOAA IMPMO O constitue interessettice | | | | |
| | 914 INIBINS-Counting-Information Enumerated | 914 | MBMS-Counting-Information | Enumerated | |

13

| 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 | |
| Note: The AVP codes from 929 to 999 are reserved for TS 29.061 | | |
| 1000 Bearer-Usage | Enumerated | |
| 1001 Charging-Rule-Install | Grouped | |
| | | |
| 1002 Charging-Rule-Remove | Grouped | |
| 1003 Charging-Rule-Definition | Grouped | |
| 1004 Charging-Rule-Base-Name | UTF8String | |
| 1005 Charging-Rule-Name | OctetString | |
| 1006 Event-Trigger | Enumerated | |
| | | |
| 1007 Metering-Method | Enumerated | |
| 1008 Offline | Enumerated | |
| 1009 Online | Enumerated | |
| 1010 Precedence | Unsigned32 | |
| 1011 Reporting-Level | Enumerated | |
| | | |
| 1012 TFT-Filter | IPFilterRule | |
| 1013 TFT-Packet-Filter-Information | Grouped | |
| 1014 ToS-Traffic-Class | OctetString | |
| 1016 QoS-Information | Grouped | |
| | | |
| 1018 Charging-Rule-Report | Grouped | |
| 1019 PCC-Rule-Status | Enumerated | |
| 1020 Bearer-Identifier | OctetString | |
| 1021 Bearer-Operation | Enumerated | |
| 1022 Access-Network-Charging-Identifier-Gx | Grouped | |
| | | |
| 1023 Bearer-Control-Mode | Enumerated | |
| 1024 Network-Request-Support | Enumerated | |
| 1025 Guaranteed-Bitrate-DL | Unsigned32 | |
| 1026 Guaranteed-Bitrate-UL | Unsigned32 | |
| 1027 IP-CAN-Type | Enumerated | 29.212 [19] |
| | | |
| 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 | | |
| T 1033 J⊑VEHI-REPOR-IHUIGANON | Grouped | |
| | | |
| 1034 Allocation-Retention-Priority | Grouped | |
| | Address | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address | | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter | Address IPFilterRule | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length | Address IPFilterRule Unsigned32 | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information | Address IPFilterRule Unsigned32 Grouped | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information 1039 CoA-Information | Address IPFilterRule Unsigned32 Grouped Grouped | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information | Address IPFilterRule Unsigned32 Grouped | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information 1039 CoA-Information 1040 APN-Aggregate-Max-Bitrate-DL | Address IPFilterRule Unsigned32 Grouped Grouped Unsigned32 | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information 1039 CoA-Information 1040 APN-Aggregate-Max-Bitrate-DL 1041 APN-Aggregate-Max-Bitrate-UL | Address IPFilterRule Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Unsigned32 | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information 1039 CoA-Information 1040 APN-Aggregate-Max-Bitrate-DL 1041 APN-Aggregate-Max-Bitrate-UL 1042 Revalidation-Time | Address IPFilterRule Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Time | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information 1039 CoA-Information 1040 APN-Aggregate-Max-Bitrate-DL 1041 APN-Aggregate-Max-Bitrate-UL 1042 Revalidation-Time 1043 Rule-Activation-Time | Address IPFilterRule Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Time Time | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information 1039 CoA-Information 1040 APN-Aggregate-Max-Bitrate-DL 1041 APN-Aggregate-Max-Bitrate-UL 1042 Revalidation-Time 1043 Rule-Activation-Time 1044 Rule-DeActivation-Time | Address IPFilterRule Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Time Time Time | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information 1039 CoA-Information 1040 APN-Aggregate-Max-Bitrate-DL 1041 APN-Aggregate-Max-Bitrate-UL 1042 Revalidation-Time 1043 Rule-Activation-Time | Address IPFilterRule Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Time Time | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information 1039 CoA-Information 1040 APN-Aggregate-Max-Bitrate-DL 1041 APN-Aggregate-Max-Bitrate-UL 1042 Revalidation-Time 1043 Rule-Activation-Time 1044 Rule-DeActivation-Time 1045 Session-Release-Cause | Address IPFilterRule Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Time Time Time Enumerated | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information 1039 CoA-Information 1040 APN-Aggregate-Max-Bitrate-DL 1041 APN-Aggregate-Max-Bitrate-UL 1042 Revalidation-Time 1043 Rule-Activation-Time 1044 Rule-DeActivation-Time 1045 Session-Release-Cause 1046 Priority-Level | Address IPFilterRule Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Time Time Time Enumerated Unsigned32 | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information 1039 CoA-Information 1040 APN-Aggregate-Max-Bitrate-DL 1041 APN-Aggregate-Max-Bitrate-UL 1042 Revalidation-Time 1043 Rule-Activation-Time 1044 Rule-DeActivation-Time 1045 Session-Release-Cause 1046 Priority-Level 1047 Pre-emption-Capability | Address IPFilterRule Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Time Time Time Enumerated Unsigned32 Enumerated | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information 1039 CoA-Information 1040 APN-Aggregate-Max-Bitrate-DL 1041 APN-Aggregate-Max-Bitrate-UL 1042 Revalidation-Time 1043 Rule-Activation-Time 1044 Rule-DeActivation-Time 1045 Session-Release-Cause 1046 Priority-Level 1047 Pre-emption-Capability 1048 Pre-emption-Vulnerability | Address IPFilterRule Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Time Time Time Enumerated Unsigned32 Enumerated Enumerated | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information 1039 CoA-Information 1040 APN-Aggregate-Max-Bitrate-DL 1041 APN-Aggregate-Max-Bitrate-UL 1042 Revalidation-Time 1043 Rule-Activation-Time 1044 Rule-DeActivation-Time 1045 Session-Release-Cause 1046 Priority-Level 1047 Pre-emption-Capability 1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS | Address IPFilterRule Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Time Time Time Enumerated Unsigned32 Enumerated Grouped | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information 1039 CoA-Information 1040 APN-Aggregate-Max-Bitrate-DL 1041 APN-Aggregate-Max-Bitrate-UL 1042 Revalidation-Time 1043 Rule-Activation-Time 1044 Rule-DeActivation-Time 1045 Session-Release-Cause 1046 Priority-Level 1047 Pre-emption-Capability 1048 Pre-emption-Vulnerability | Address IPFilterRule Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Time Time Time Enumerated Unsigned32 Enumerated Enumerated | |
| 1034 Allocation-Retention-Priority 1035 CoA-IP-Address 1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length 1038 Tunnel-Information 1039 CoA-Information 1040 APN-Aggregate-Max-Bitrate-DL 1041 APN-Aggregate-Max-Bitrate-UL 1042 Revalidation-Time 1043 Rule-Activation-Time 1044 Rule-DeActivation-Time 1045 Session-Release-Cause 1046 Priority-Level 1047 Pre-emption-Capability 1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS | Address IPFilterRule Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Time Time Time Enumerated Unsigned32 Enumerated Grouped | |

| 1052 QoS-Rule-Remo | | Grouped | |
|--|--|--------------|-------------|
| 1053 QoS-Rule-Defini | | Grouped | |
| 1054 QoS-Rule-Name | | OctetString | |
| 1055 QoS-Rule-Report | | Grouped | |
| 1056 Security-Parame | ter-Index | OctetString | |
| 1057 Flow-Label | | OctetString | |
| 1058 Flow-Information | | Grouped | |
| 1059 Packet-Filter-Co | | IPFilterRule | |
| 1060 Packet-Filter-Ide | ntifier | OctetString | |
| 1061 Packet-Filter-Info | ormation | Grouped | |
| 1062 Packet-Filter-Op | | Enumerated | |
| 1063 Resource-Alloca | tion-Notification | Enumerated | |
| 1064 Session-Linking- | Indicator | Enumerated | |
| 1065 PDN-Connection | | OctetString | |
| 1066 Monitoring-Key | | OctetString | |
| 1067 Usage-Monitorin | g-Information | Grouped | |
| 1068 Usage-Monitorin | g-Level | Enumerated | |
| 1069 Usage-Monitorin | | Enumerated | |
| 1070 Usage-Monitorin | | Enumerated | |
| 1071 CSG-Information | | Enumerated | |
| 1072 Packet-Filter-Us | | Enumerated | |
| 1073 Charging-Correla | | Enumerated | |
| 1074 QoS-Rule-Base- | | UTF8String | |
| 1075 Routing-Rule-Re | | Grouped | |
| 1076 Routing-Rule-De | | Grouped | |
| 1077 Routing-Rule-Ide | | OctetString | |
| 1078 Routing-Filter | | Grouped | |
| 1079 Routing-IP-Addre | 255 | Address | |
| 1080 Flow-Direction | | Enumerated | |
| 1081 Routing-Rule-Ins | stall | Grouped | |
| | rom 1082 to 1099 are reserved for TS 29.212 | Croupou | |
| 1100 Served-User-Ide | | Groupe | |
| 1101 VASP-ID | nacy | UTF8Str | |
| 1102 VAS-ID | | UTF8String | |
| 1103 Trigger-Event | | Enumerated | |
| 1104 Sender-Address | | UTF8String | |
| 1105 Initial-Recipient- | Address | Grouped | |
| 1106 Result-Recipient | | Grouped | |
| 1107 Sequence-Numb | | Unsigned32 | |
| 1108 Recipient-Addres | | UTF8String | |
| 1109 Routeing-Addres | | UTF8String | 29.140 [16] |
| 1110 Originating-Inter | | Enumerated | 20.140 [10] |
| 1111 Delivery-Report | 400 | Enumerated | |
| 1112 Read-Reply | | Enumerated | |
| 1113 Sender-Visibility | | Enumerated | |
| 1114 Service-Key | | UTF8String | |
| 1115 Billing-Information | ın | UTF8String | |
| 1116 Status | 11 | Grouped | |
| 1117 Status-Code | | UTF8String | |
| 1118 Status-Text | | UTF8String | |
| | rom 1119 to 1199 are reserved for TS 29.140 | 1 OTT OSHING | |
| 1200 Domain-Name | 1011 1113 to 1133 die 1eserveu 101 13 23.140 | UTF8String | |
| 1200 Domain-Name | ee e | Grouped | |
| 1201 Recipient-Address | | Time | |
| 1202 Submission-Time | | Grouped | |
| 1204 Type-Number | | Enumerated | |
| 1204 Type-Number 1205 Additional-Type- | Information | UTF8String | |
| 1205 Additional-Type- 1206 Content-Size | IIIIOIIIIdUOII | | |
| | nt Information | Unsigned32 | 32.299 [5] |
| 1207 Additional-Conte | | Grouped | • • |
| 1208 Addressee-Type | | Enumerated | |
| 1209 Priority | | Enumerated | |
| | | UTF8String | |
| 1210 Message-ID | | | l |
| 1211 Message-Type | | Enumerated | |
| | | | |

| 1214 Class-Identifier | Enumerated |
|----------------------------------|-------------|
| 1215 Token-Text | UTF8String |
| 1216 Delivery-Report-Requested | Enumerated |
| 1217 Adaptations | Enumerated |
| 1218 Applic-ID | UTF8String |
| 1219 Aux-Applic-Info | UTF8String |
| 1220 Content-Class | Enumerated |
| 1221 DRM-Content | Enumerated |
| 1222 Read-Reply-Report-Requested | Enumerated |
| 1223 Reply-Applic-ID | UTF8String |
| 1224 File-Repair-Supported | Enumerated |
| 1225 MBMS-User-Service-Type | Enumerated |
| 1226 Unit-Quota-Threshold | Unsigned32 |
| 1227 PDP-Address | Address |
| 1228 SGSN-Address | Address |
| 1229 PoC-Session-Id | UTF8String |
| 1230 Deferred-Location-Even-Type | UTF8String |
| I231 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 |
| 1253 PoC-User-Role-IDs | UTF8String |
| 1254 PoC-User-Role-info-Units | Enumerated |
| 1255 Talk-Burst-Exchange | Grouped |
| 1256 Service-Generic-Information | Grouped |
| 1257 Service-Specific-Type | Unsigned32 |
| 1258 Event-Charging-TimeStamp | Time |
| 1259 Participant-Access-Priority | Enumerated |
| 1260 Participant-Group | Grouped |
| 1261 PoC-Change-Conditions | Enumerated |
| 1262 PoC-Change-Time | Time |
| 1263 Access-Network-Information | OctetString |
| 1264 Trigger | Grouped |
| 1265 Base-Time-Interval | Unsigned32 |
| 1266 Envelope | Grouped |
| 1267 Envelope-End-Time | Time |
| 1268 Envelope-Reporting | Enumerated |
| 1269 Envelope-Start-Time | Time |
| 1270 Time-Quota-Mechanism | Grouped |
| 1271 Time-Quota-Type | Enumerated |
| 1272 Early-Media-Description | Grouped |
| 1273 SDP-TimeStamps | Grouped |
| 1274 SDP-Offer-Timestamp | Time |
| 1275 SDP-Answer-Timestamp | Time |
| 1276 AF-Correlation-Information | Grouped |
| 1277 PoC-Session-Initiation-type | Enumerated |
| 1278 Offline-Charging | Grouped |
| | |

| | , | |
|--|---------------|-------------|
| 1279 User-Participating-Type | Enumerated | |
| 1280 Alternate-Charged-Party-Address | UTF8String | |
| 1281 IMS-Communication-Service-Identifier | UTF8String | |
| 1282 Number-Of-Received-Talk-Bursts | Unsigned32 | |
| 1283 Number-Of-Talk-Bursts | Unsigned32 | |
| 1284 Received-Talk-Burst-Time | Unsigned32 | |
| | | |
| 1285 Received-Talk-Burst-Volume | Unsigned32 | |
| 1286 Talk-Burst-Time | Unsigned32 | |
| 1287 Talk-Burst-Volume | Unsigned32 | |
| 1288 Media-Initiator-Party | UTF8String | |
| Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 | <u> </u> | |
| 1400 Subscription-Data | Grouped | |
| 1401 Terminal-Information | Grouped | |
| | | |
| 1402 IMEI | UTF8String | |
| 1403 Software-Version | UTF8String | |
| 1404 QoS-Subscribed | UTF8String | |
| 1405 ULR-Flags | Unsigned32 | |
| 1406 ULA-Flags | Unsigned32 | |
| 1407 Visited PLMN Id | OctetString | |
| 1408 Requested-EUTRAN-Authentication-Info | Grouped | |
| | | |
| 1409 Requested-UTRAN- GERAN-Authentication-Info | Grouped | |
| 1410 Number-Of-Requested-Vectors | Unsigned32 | |
| 1411 Re-Synchronization-Info | OctetString | |
| 1412 Immediate-Response-Preferred | Unsigned32 | |
| 1413 Authentication-Info | Grouped | |
| 1414 E-UTRAN-Vector | Grouped | |
| 1415 UTRAN-Vector | Grouped | |
| | | |
| 1416 GERAN-Vector | Grouped | |
| 1417 Network-Access-Mode | Enumerated | |
| 1418 HPLMN-ODB | Enumerated | |
| 1419 Item-Number | Unsigned32 | |
| 1420 Cancellation-Type | Enumerated | |
| 1421 DSR-Flags | Unsigned32 | |
| 1422 DSA-Flags | Unsigned32 | |
| | | |
| 1423 Context-Identifier | Unsigned32 | |
| 1424 Subscriber-Status | Enumerated | |
| 1425 Operator-Determined-Barring | Unsigned32 | |
| 1426 Access-Restriction-Data | UTF8String | 00 070 [04] |
| 1427 APN-OI-Replacement | UTF8String | 29.272 [21] |
| 1428 All-APN-Configurations-Included-Indicator | Enumerated | |
| 1429 APN-Configuration-Profile | Grouped | |
| | | |
| 1430 APN-Configuration | Grouped | |
| 1431 EPS-Subscribed-QoS-Profile | Grouped | |
| 1432 VPLMN-Dynamic-Address-Allowed | Enumerated | |
| 1433 STN-SR | OctetString | |
| 1434 Alert-Reason | Enumerated | |
| 1435 AMBR | Grouped | |
| 1436 CSG-Subscription-Data | | |
| | Grouped | |
| 1437 CSG-ld | Unsigned32 | |
| 1438 PDN-GW-Allocation-Type | Enumerated | |
| 1439 Expiration-Date | Time | |
| 1440 RAT-Frequency-Selection-Priority-ID | Unsigned32 | |
| 1441 IDA-Flags | Unsigned32 | |
| 1442 PUA-Flags | Unsigned32 | |
| 1443 NOR-Flags | Unsigned32 | |
| | | |
| 1444 User-Id | UTF8String | |
| 1445 Equipment-Status | Enumerated | |
| 1446 Regional-Subscription-Zone-Code | OctetString | |
| 1447 RAND | OctetString | |
| 1448 XRES | OctetString | |
| 1449 AUTN | OctetString | |
| | | |
| 1450 KASME | OctetString | |
| 1451 Reserved | | |
| 1452 Trace-Collection-Entity | Address | |
| 1453 Kc | OctetString | |
| | U | |

| 4454 0050 | | |
|--|-------------|-------------|
| 1454 SRES | OctetString | |
| 1455 Reserved | - | |
| 1456 PDN-Type | Enumerated | |
| 1457 Roaming-Restricted-Due-To-Unsupported-Feature | Enumerated | |
| 1458 Trace-Data | Grouped | |
| 1459 Trace-Reference | OctetString | |
| 1460 Reserved | - | |
| 1461 Reserved | - | |
| 1462 Trace-Depth | Enumerated | |
| 1463 Trace-NE-Type-List | OctetString | |
| 1464 Trace-Interface-List | OctetString | |
| 1465 Trace-Event-List | OctetString | |
| 1466 OMC-Id | OctetString | |
| 1467 GPRS-Subscription-Data | Grouped | |
| 1468 Complete-Data-List-Included-Indicator | Enumerated | |
| 1469 PDP-Context | Grouped | |
| 1470 PDP-Type | OctetString | |
| 1471 3GPP2-MEID | | |
| 1471 3GPP2-MEID 1472 Specific-APN-Info | OctetString | |
| | Grouped | |
| 1473 LCS-Info | Grouped | |
| 1474 GMLC-Number | OctetString | |
| 1475 LCS-PrivacyException | Grouped | |
| 1476 SS-Code | OctetString | |
| 1477 SS-Status | OctetString | |
| 1478 Notification-To-UE-User | Enumerated | |
| 1479 External-Client | Grouped | |
| 1480 Client-Identity | OctetString | |
| 1481 GMLC-Restriction | Enumerated | |
| 1482 PLMN-Client | Enumerated | |
| 1483 Service-Type | Grouped | |
| 1484 ServiceTypeIdentity | Unsigned32 | |
| 1485 MO-LR | Grouped | |
| 1486 Teleservice-List | Grouped | |
| 1487 TS-Code | Enumerated | |
| 1488 Call-Barring-Info | Grouped | |
| 1489 SGSN-Number | OctetString | |
| 1490 IDR-Flags | Unsigned32 | |
| 1491 ICS-Indicator | Enumerated | |
| 1492 IMS-Voice-Over-PS-Sessions-Supported | Enumerated | |
| 1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions | Enumerated | |
| 1494 Last-UE-Activity-Time | Time | |
| 1495 EPS-User-State | Grouped | |
| 1496 EPS-Oset-State | Grouped | |
| | | |
| 1497 MME-User-State | Grouped | |
| 1498 SGSN-User-State | Grouped | |
| 1499 User-State | Enumerated | |
| 1500 Non 2CDD Hoor Doto | Crouncid | |
| 1500 Non-3GPP-User-Data | Grouped | |
| 1501 Non-3GPP-IP-Access | Enumerated | |
| 1502 Non-3GPP-IP-Access-APN | Enumerated | |
| 1503 AN-Trusted | Enumerated | |
| 1504 ANID | UTF8String | |
| 1505 Trace-Info | Grouped | |
| 1506 MIP-FA-RK | OctetString | |
| 1507 MIP-FA-RK-SPI | Unsigned32 | 29.273 [20] |
| 1508 Reserved | - | 20.210 [20] |
| 1509 Reserved | - | |
| 1510 Reserved | - | |
| 1511 Reserved | - | |
| 1512 Reserved | - | |
| 1513 Reserved | - | |
| 1514 Reserved | - | |
| 1515 Trust-Relationship-Update | Enumerated | |
| 1516 Reserved | - | |
| 1517 Reserved | - | |
| L L | | |

| No. 4. The AVD and a frame 4540 to 4500 and manual fact TO 00 070 | | |
|--|--------------------|-------------|
| Note: The AVP codes from 1518 to 1599 are reserved for TS 29.273 | Cravina | |
| 1600 MME-Location-Information | Grouped Grouped | |
| 1601 SGSN-Location-Information 1602 E-UTRAN-Cell-Global-Identity | OctetString | |
| 1603 Tracking-Area-Identity | OctetString | |
| 1604 Cell-Global-Identity | OctetString | |
| 1605 Routing-Area-Identity | OctetString | |
| 1606 Location-Area-Identity | OctetString | |
| 1607 Service-Area-Identity | OctetString | |
| 1608 Geographical-Information | OctetString | |
| 1609 Geodetic-Information | OctetString | |
| 1610 Current-Location-Retrieved | Enumerated | |
| 1611 Age-Of-Location-Information | Unsigned32 | |
| 1612 Active-APN | Grouped | |
| 1613 SIPTO-Permission | Enumerated | |
| 1614 Error-Diagnostic | Enumerated | |
| 1615 UE-SRVCC-Capability | Enumerated | |
| 1616 MPS-Priority | Unsigned32 | |
| 1617 VPLMN-LIPA-Allowed | Enumerated | |
| 1618 LIPA-Permission | Enumerated | |
| 1619 Subscribed-Periodic-RAU-TAU-Timer | Unsigned32 | |
| 1620 Ext-PDP-Type | OctetString | |
| 1621 Ext-PDP-Address | Address | |
| 1622 MDT-Configuration | Grouped | |
| 1623 Job-Type | Enumerated | |
| 1624 Area-Scope | Grouped | |
| 1625 List-Of-Measurements | Unsigned32 | |
| 1626 Reporting-Trigger | Unsigned32 | 20 272 [24] |
| 1627 Report-Interval | Enumerated | 29.272 [21] |
| 1628 Report-Amount | Enumerated | |
| 1629 Event-ThresholdRSRP | Unsigned32 | |
| 1630 Event-ThresholdRSRQ | Unsigned32 | |
| 1631 Logging-Interval | Enumerated | |
| 1632 Logging-Duration | Enumerated | |
| 1633 Relay-Node-Indicator | Enumerated | |
| 1634 MDT-User-Consent | Enumerated | |
| 1635 PUR-Flags | Unsigned32 | |
| 1636 Reserved | - | |
| 1637 Reserved | - | |
| 1638 CLR-Flags | Unsigned32 | |
| 1639 Reserved | <u>-</u> | |
| 1644 Reserved | - | |
| 1641 Reserved 1642 Reserved | - | |
| 1643 Reserved | | |
| 1644 Reserved | - | |
| 1645 Reserved | - | |
| 1646 Reserved | - | |
| 1647 Reserved | - | |
| 1648 Reserved | - | |
| 1649 Reserved | - | |
| 1650 Reserved | - | |
| 1651 GMLC-Info | Grouped | |
| 1652 GMLC-Name | DiameterIdentity | |
| 1653 GMLC-Realm | DiameterIdentity | |
| Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272. | | |
| 2000 SMS-Information | Grouped | |
| 2001 Data-Coding-Scheme | Integer32 | |
| 2002 Destination-Interface | Grouped | |
| 2003 Interface-Id | UTF8String | |
| 2004 Interface-Port | UTF8String | 32.299 [5] |
| 2005 Interface-Text | UTF8String | [-] |
| 2006 Interface-Type | Enumerated | |
| | Litalilolatoa | |
| 2007 SM-Message-Type | Enumerated | |
| 2007 SM-Message-Type 2008 Originating-SCCP-Address | | |

| 2009 Originator-Interface | Grouped | |
|---|---|------------|
| 2010 Recipient-SCCP-Address | Address | |
| 2011 Reply-Path-Requested | Enumerated | |
| 2012 SM-Discharge-Time 2013 SM-Protocol-ID | Time | |
| 2013 SM-Protocol-ID 2014 SM-Status | OctetString OctetString | |
| 2014 SM-Status 2015 SM-User-Data-Header | OctetString | |
| 2016 SMS-Node | Enumerated | |
| 2017 SMSC-Address | Address | |
| 2017 SM3C-Address 2018 Client-Address | Address | |
| 2019 Number-of-Messages-Sent | Unsigned32 | |
| 2020 Low-Balance-Indication | Enumerated | |
| 2021 Remaining-Balance | Grouped | |
| 2022 Refund-Information | OctetString | |
| 2023 Carrier-Select-Routing-Information | UTF8String | |
| 2024 Number-Portability-Routing-Information | UTF8String | |
| 2025 PoC-Event-Type | Enumerated | |
| 2025 Recipient-Info | Grouped | |
| 2027 Originator-Received-Address | | |
| 2027 Originator-Received-Address 2028 Recipient-Received-Address | Grouped Grouped | |
| 2028 Recipient-Received-Address 2029 SM-Service-Type | Enumerated | |
| 2030 MMTel-Information | Grouped | |
| 2030 MMTel-Sservice-Type | | |
| 2031 Milvitei-Sservice-Type 2032 Service-Mode | Unsigned32 Unsigned32 | |
| 2032 Service-Mode 2033 Subscriber-Role | Enumerated | |
| 2034 Number-Of-Diversions | Unsigned32 | |
| 2035 Associated-Party-Address | UTF8String | |
| 2036 SDP-Type | Enumerated | |
| 2030 Change-Condition | Integer32 | |
| 2038 Change-Time | Time | |
| 2039 Diagnostics | Integer32 | |
| 2040 Service-Data-Container | Grouped | |
| 2040 Start-Time | Time | |
| 2041 Start-Time 2042 Stop-Time | Time | |
| 2042 Stop-Time 2043 Time-First-Usage | Time | |
| 2044 Time-Last-Usage | Time | |
| 2044 Time-Last-Osage 2045 Time-Usage | Unsigned32 | |
| 2045 Traffic-Data-Volumes | Grouped | |
| 2046 Hainc-Data-Volumes 2047 Serving-Node-Type | Enumerated | |
| 2048 Supplementary-Service | Grouped | |
| 2049 Participant-Action-Type | Enumerated | |
| 2050 PDN-Connection-Charging-ID | Unsigned32 | |
| 2050 PDN-Connection-Charging-iD 2051 Dynamic-Address-Flag | Enumerated | |
| 2051 Dynamic-Address-Flag 2052 Accumulated-Cost | Grouped | |
| 2053 AoC-Cost-Information | Grouped | |
| 2054 AoC-Information | Grouped | |
| 2055 AoC-Request-Type | Enumerated | |
| 2055 AoC-Request-Type 2056 Current-Tariff | Grouped | |
| 2056 Current-Tariif 2057 Next-Tariff | Grouped | |
| | | |
| 2059 Pata Floment | | |
| | Grouped | |
| 2059 Scale-Factor | Grouped Grouped | |
| 2059 Scale-Factor 2060 Tariff-Information | Grouped Grouped Grouped | |
| 2059 Scale-Factor 2060 Tariff-Information 2061 Unit-Cost | Grouped Grouped Grouped Grouped | |
| 2059 Scale-Factor 2060 Tariff-Information 2061 Unit-Cost 2062 Incremental-Cost | Grouped Grouped Grouped Grouped Grouped | |
| 2059 Scale-Factor 2060 Tariff-Information 2061 Unit-Cost 2062 Incremental-Cost 2063 Local-Sequence-Number | Grouped Grouped Grouped Grouped Grouped Unsigned32 | |
| 2059 Scale-Factor 2060 Tariff-Information 2061 Unit-Cost 2062 Incremental-Cost 2063 Local-Sequence-Number 2064 Node-Id | Grouped Grouped Grouped Grouped Grouped Unsigned32 UTF8String | |
| 2059 Scale-Factor 2060 Tariff-Information 2061 Unit-Cost 2062 Incremental-Cost 2063 Local-Sequence-Number 2064 Node-Id 2065 SGW-Change | Grouped Grouped Grouped Grouped Grouped Unsigned32 UTF8String Enumerated | |
| 2059 Scale-Factor 2060 Tariff-Information 2061 Unit-Cost 2062 Incremental-Cost 2063 Local-Sequence-Number 2064 Node-Id 2065 SGW-Change 2066 Charging-Characteristic-Selection-Mode | Grouped Grouped Grouped Grouped Grouped Grouped Unsigned32 UTF8String Enumerated Enumerated | |
| 2059 Scale-Factor 2060 Tariff-Information 2061 Unit-Cost 2062 Incremental-Cost 2063 Local-Sequence-Number 2064 Node-Id 2065 SGW-Change 2066 Charging-Characteristic-Selection-Mode 2067 SGW-Address | Grouped Grouped Grouped Grouped Grouped Unsigned32 UTF8String Enumerated Enumerated Address | |
| 2059 Scale-Factor 2060 Tariff-Information 2061 Unit-Cost 2062 Incremental-Cost 2063 Local-Sequence-Number 2064 Node-Id 2065 SGW-Change 2066 Charging-Characteristic-Selection-Mode 2067 SGW-Address 2068 Dynamic-Address-Flag-Extension | Grouped Grouped Grouped Grouped Grouped Grouped Unsigned32 UTF8String Enumerated Enumerated | |
| 2059 Scale-Factor 2060 Tariff-Information 2061 Unit-Cost 2062 Incremental-Cost 2063 Local-Sequence-Number 2064 Node-Id 2065 SGW-Change 2066 Charging-Characteristic-Selection-Mode 2067 SGW-Address 2068 Dynamic-Address-Flag-Extension Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299 | Grouped Grouped Grouped Grouped Grouped Unsigned32 UTF8String Enumerated Enumerated Address | |
| 2058 Rate-Element 2059 Scale-Factor 2060 Tariff-Information 2061 Unit-Cost 2062 Incremental-Cost 2063 Local-Sequence-Number 2064 Node-Id 2065 SGW-Change 2066 Charging-Characteristic-Selection-Mode 2067 SGW-Address 2068 Dynamic-Address-Flag-Extension Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299 2100 reserved | Grouped Grouped Grouped Grouped Grouped Unsigned32 UTF8String Enumerated Enumerated Address Enumerated | |
| 2059 Scale-Factor 2060 Tariff-Information 2061 Unit-Cost 2062 Incremental-Cost 2063 Local-Sequence-Number 2064 Node-Id 2065 SGW-Change 2066 Charging-Characteristic-Selection-Mode 2067 SGW-Address 2068 Dynamic-Address-Flag-Extension Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID | Grouped Grouped Grouped Grouped Grouped Unsigned32 UTF8String Enumerated Enumerated Address Enumerated UTF8String | 32.299 [5] |
| 2059 Scale-Factor 2060 Tariff-Information 2061 Unit-Cost 2062 Incremental-Cost 2063 Local-Sequence-Number 2064 Node-Id 2065 SGW-Change 2066 Charging-Characteristic-Selection-Mode 2067 SGW-Address 2068 Dynamic-Address-Flag-Extension Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299 | Grouped Grouped Grouped Grouped Grouped Unsigned32 UTF8String Enumerated Enumerated Address Enumerated | 32.299 [5] |

| 2104 Delivery-Status | UTF8String | |
|--|-----------------------|---------------|
| 2105 reserved | | |
| 2106 reserved | - | |
| 2107 reserved | - | |
| 2108 reserved | - | |
| 2109 reserved | - | |
| 2110 IM-Information | Grouped | |
| 2111 Number-Of-Messages-Successfully-Exploded | Unsigned32 | |
| 2112 Number-Of-Messages-Successfully-Sent | Unsigned32 | |
| 2113 Total-Number-Of-Messages-Exploded | Unsigned32 | |
| 2114 Total-Number-Of-Messages-Sent | Unsigned32 | |
| 2115 DCD-Information | Grouped | |
| 2116 Content-ID | UTF8String | |
| 2117 Content-provider-ID | UTF8String | |
| 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 | Enumerated | |
| 2200 Subsession-Decision-Info | Grouped | |
| 2201 Subsession-Enforcement-Info | Grouped | |
| 2202 Subsession-Id | Unsigned32 | 29.215 [22] |
| 2203 Subsession-Operation | Enumerated | 20.210 [22] |
| 2204 Multiple-BBERF-Action | Enumerated | |
| Note: The AVP codes from 2205 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 | 02.200 [0] |
| 2313 AoC-Service-Type | Enumerated | |
| 2314 AoC-Subscription-Information | Grouped | |
| 2315 Preferred-AoC-Currency | Unsigned32 | |
| 2316 Reserved | | |
| 2317 CSG-Access-Mode 2318 CSG-Membership-Indication | Enumerated | |
| 2319 User-CSG-Information | Enumerated Grouped | |
| 2319 Oser-Csg-mornation 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 2323 to 2399 are reserved for TS 32.299 | Liiginolatoa | |
| 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 | |
| 2406 Additional-Serving-Node | Grouped | |
| 2407 PPR-Address | Address | |
| 2408 MME-Realm | DiameterIdentity | |
| Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 | | |
| 2500 Location-Type | Enumerated | |
| 2501 LCS-EPS-Client-Name | Grouped | |
| 2502 LCS-Requestor-Name | Grouped | |
| 2503 LCS-Priority | Unsigned32 | 29.172 [24] |
| 2504 LCS-QoS | Grouped | · · · – [– ·] |
| 2505 Horizontal-Accuracy | Unsigned32 | |
| 2506 Vertical-Accuracy | Unsigned32 | |
| 2507 Vertical-Requested | Enumerated | |

| 2508 Velocity-Requested | Enumerated | |
|--|-------------|------------|
| 2509 Response-Time | Enumerated | Ì |
| 2510 Supported-GAD-Shapes | Unsigned32 | Ì |
| 2511 LCS-Codeword | UTF8String | İ |
| 2512 LCS-Privacy-Check | Enumerated | Ì |
| 2513 Accuracy-Fulfilment-Indicator | Enumerated | İ |
| 2514 Age-Of-Location-Estimate | Unsigned32 | Ì |
| 2515 Velocity-Estimate | OctetString | Ì |
| 2516 EUTRAN-Positioning-Data | OctetString | İ |
| 2517 ECGI | OctetString | İ |
| 2518 Location-Event | Enumerated | İ |
| 2519 Pseudonym-Indicator | Enumerated | Ì |
| 2520 LCS-Service-Type-ID | Unsigned32 | Ì |
| 2521 LCS-Privacy-Check-Non-Session | Grouped | Ì |
| 2522 LCS-Privacy-Check-Session | Grouped | Ì |
| 2523 LCS-QoS-Class | Enumerated | <u> </u> |
| Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172 | | |
| 2600 reserved | - | Ì |
| 2601 IMS-Application-Reference-Identifier | UTF8String | Ì |
| 2602 Low-Priority-Indicator | Enumerated | Ì |
| 2603 IP-Realm-Default-Indicator | Enumerated | 32.299 [5] |
| 2604 Local-GW-Inserted-Indicator | Enumerated | Ì |
| 2605 Transcoder-Inserted-Indicator | Enumerated | l |
| 2606 PDP-Address-Prefix-Length | Unsigned32 | |
| Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 | | |

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 Experim | ental Result Codes from 2006 to 2020 are reserved for the TS 29.229. | |
| 2021 | DIAMETER_PDP_CONTEXT_DELETION_INDICATION | 29.061 [13] |
| Note: The Experimental Result Codes from 2022 to 2040 are reserved for the TS 29.061 | | |
| | | 29.109 [7] |
| Note: The Experim | ental Result Codes from 2401 to 2420 are reserved for the TS 29.109. | |

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 | 20 242 [40] |
| 4142 | DIAMETER_BEARER_EVENT | 29.212 [19] |
| Note: The Experime | ntal Result Codes from 4142 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 | 23.172 [24] |
| 4225 | DIAMETER_ERROR_POSITIONING_FAILED | |
| 4226 | DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT | |
| Note: The Experime | ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172. | |

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

| Experimental Result 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 | 20.220 [2] |
| 5008 | DIAMETER_ERROR_TOO_MUCH_DATA | |
| 5009 | DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA | |
| | | |
| 5010 5011 | unassigned DIAMETER_ERROR_FEATURE_UNSUPPORTED | |
| | | 0.00.000 |
| Note: The Expe | rimental Result Codes from 5012 to 5020 are reserved for the T | |
| | | 32.299 [5] |
| | rimental Result Codes from 5021 to 5040 are reserved for the T | S 32.299. |
| 5041 | DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION | |
| 5042 | DIAMETER_ERROR_W-APN_UNUSED_BY_USER | |
| 5043 | DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC | 29.234 [6] |
| | RIPTION | 29.234 [0] |
| 5044 | DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION | |
| 5045 | DIAMETER ERROR UNSUITABLE NETWORK | |
| Note: The Expe | rimental 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 | 29.209 [8], |
| | DUPLICATED_AF_SESSION | |
| 5064 | | 29.211 [17], |
| 5065 | IP-CAN_SESSION_NOT_AVAILABLE | 29.214 [18] |
| 5066 | UNAUTHORIZED_NON_EMERGENCY_SESSION | |
| 5067 | UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY | |
| Note: The Expe | rimental Result Codes from 5068 to 5080 are reserved for TS 29 | 9.209, TS 29.211 |
| and ⁻ | TS 29.214. | |
| 5100 | DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED | |
| 5101 | DIAMETER_ERROR_OPERATION_NOT_ALLOWED | |
| 5102 | DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ | |
| 5103 | DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED | |
| 5104 | DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED | 1 |
| 5105 | DIAMETER ERROR TRANSPARENT DATA | 29.329 [4] |
| 3103 | OUT_OF_SYNC | |
| E406 | | |
| 5106 | DIAMETER_ERROR_SUBS_DATA_ABSENT | |
| 5107 | DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA | |
| 5108 | DIAMETER_ERROR_DSAI_NOT_AVAILABLE | |
| | rimental Result Codes from 5109 to 5119 are reserved for the T | S 29.329. |
| 5120 | DIAMETER_ERROR_START_INDICATION | |
| 5121 | DIAMETER_ERROR_STOP_INDICATION | |
| 5122 | DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC | 29.061 [13] |
| | E | |
| 5123 | DIAMETER ERROR SERVICE AREA | 1 |
| | rimental Result Codes from 5124 to 5139 are reserved for the T | S 29.061. |
| 5140 | DIAMETER_ERROR_INITIAL_PARAMETERS | |
| 5141 | DIAMETER ERROR TRIGGER EVENT | 1 |
| 5142 | DIAMETER PCC RULE EVENT | |
| 5143 | DIAMETER_FOC_ROLE_EVENT DIAMETER ERROR BEARER NOT AUTHORIZED | |
| | | 20 242 [40] |
| 5144 | DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE | 29.212 [19] |
| F4.4F | DIAMETER OOS BUILE EVENT | - |
| 5145 | DIAMETER_QOS_RULE_EVENT | |
| 5146 | reserved | |
| 5147 | DIAMETER_ERROR_CONFLICTING_REQUEST | |
| Note: The Expe | rimental Result Codes from 5144 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 |] |
| | rimental Result Codes from 5404 to 5419 are reserved for the T | S 29,109. |
| 5420 | DIAMETER ERROR UNKNOWN EPS SUBSCRIPTION | 29.272 [21] |
| | | [] |

| 5421 | DIAMETER_ERROR_RAT_NOT_ALLOWED | | | | | | |
|---|--|-------------|--|--|--|--|--|
| 5422 | DIAMETER_ERROR_EQUIPMENT_UNKNOWN | | | | | | |
| 5423 | DIAMETER_ERROR_UNKNOWN_SERVING_NODE | | | | | | |
| Note: The 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 29.215 [22 | | | | | | |
| Note: The Experimental Result Codes from 5471 to 5489 are reserved for the TS 29.215. | | | | | | | |
| 5490 | DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET | 29.173 [25] | | | | | |
| | WORK | | | | | | |
| Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173. | | | | | | | |

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

| Deta | TCO." | TCC D | CD | D | Change history | Ol-l | Marc |
|---------|--------|------------------------|------|-----|---|-----------|-------|
| Date | TSG # | TSG Doc. | CR | Kev | Subject/Comment | Old | New |
| 2004-06 | CN#24 | NP-040292 | 004 | | 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 | | 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 | i | |
| | | NP-050039 | | | Allocations for MMS, MM10 Interface | i | |
| 2005-06 | CT#28 | CP-050088 | | | Gx interface allocation correction | 6.3.0 | 6.4.0 |
| 2003 00 | 01#20 | CP-050196 | | 1 | Addition of Maximum-Number-Accesses AVP | 0.5.0 | 0.4.0 |
| 2005-09 | CT#29 | CP-050196 | | 1 | Private identities on the Cx | 6.4.0 | 6.5.0 |
| 2000-09 | 01#28 | CP-050440 CP-050310 | | - | Addition of Pr reference point to TS 29.230 | 0.4.0 | 0.5.0 |
| | | CP-050310 CP-050310 | | | | ł | |
| | | | | | Error code cleanup Addition of Rx ref. point and renaming of Experimental Result | { | |
| | | CP-050310 | 0056 | | Codes | <u> </u> | |
| 2005-09 | CT#29 | CP-050317 | 0055 | | Addition of GUSS timestamp AVP | 6.5.0 | 7.0.0 |
| 2005-12 | CT#30 | CP-050624 | 0058 | | Addition of GBA-Type AVP | 7.0.0 | 7.1.0 |
| | | CP-050612 | 0063 | | Additional Gmb AVP Allocation | Ī | |
| | | CP-050612 | 0065 | | Reservation of AVP codes for 32.299 | İ | |
| | | CP-050625 | | | Management of Sh subscriptions | i | |
| 2006-03 | CT#31 | CP-060073 | | | Adding data type of some of WLAN-related AVPs | 7.1.0 | 7.2.0 |
| 2000 00 | 01#01 | CP-060084 | | | User-Data in the response to Sh-Subs-Notif | 1 | 7.2.0 |
| | | CP-060084 | | 1 | New error indications for the Sh-Subs-Notif procedure | 1 | |
| 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 |
| 2000-03 | 01#33 | CP-060417 | | J | Errors to be sent in response to Sh-Notif | 7.3.0 | 7.4.0 |
| | l | CP-060417 | | | Definition of specific Diameter codes for DSAI | ł | |
| 2006-12 | CT#34 | CP-060417 | | 4 | Optimization of handling of Wildcarded PSIs | 7.4.0 | 7.5.0 |
| 2006-12 | C1#34 | | | 1 | | 7.4.0 | 7.5.0 |
| | | CP-060562 | | | Addition of Diameter Error Code for Emergency Purposes Allocation of new AVP codes for Gmb | ł | |
| | ļ | CP-060555 | | | | ł | |
| | | CP-060555 | | | AVP code allocations for Rf and Ro interfaces | | |
| | 07::07 | CP-060566 | | | Allocation of Success Result Code Range for Gi Interface | | |
| 2007-03 | CT#35 | CP-070020 | | | C3 requested addition of new AVP code values to 3GPP TS 29.230 | 7.5.0 | 7.6.0 |
| | | CP-070020 | | | Allocation of new AVP code for DSAI-Tag AVP | J | |
| | | CP-070020 | | | Allocation of Experimental-Result-Code AVP for Gi Interface | <u>L_</u> | |
| 2007-06 | CT#36 | CP-070318 | 0096 | | Diameter application ID for the Rel-7 Rx interface | 7.6.0 | 7.7.0 |
| | | CP-070312 | | | Experimental-Result-Codes for Gmb interface | Ī | |
| | | CP-070312 | | | Correction of Diameter AVP code allocation | Ī | |
| 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 |
| | 000 | 0. 0.00 | 0105 | | Allocation of 3GPP specific AVP codes and Experimental | 1.10.0 | 1.0.0 |
| | | | | | Result Codes for Gx protocol | <u> </u> | |
| 2007-12 | CT#38 | CP-070755 | 0101 | 4 | AVP assignments to support SIP Digest Authentication | 7.9.0 | 8.0.0 |
| | | | 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 | |
| | | CP-080019 | | | Wildcarded Public User Identities | i | |
| | | CP-080191 | | 1 | Correction on AVP code allocation reservation for TS 32.299 in | 1 | |
| | | | | | Rel-7 | 1 | |
| | | CP-080204 | | | Correction on AVP code allocation reservation for TS 32.299 | | |
| 2008-06 | CT#40 | CP-080267 | | 1 | A new Diameter Permanent Failure Code for Gx | 8.1.0 | 8.2.0 |
| 2008-09 | CT#41 | CP-080456 | | | Emergency Public User Identity Removal | 8.2.0 | 8.3.0 |
| | | LCD 000400 | 0101 | 1 | Support of "Loose-Route" indication from HSS | i | |
| 2008-09 | CT#41 | CP-080460 | 0121 | | Support of Loose-Route indication from HSS | | |

| 2008-09 | CT#41 | CP-080463 | 0123 | | Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment) |] | |
|---------|--------|------------------------|--------------|---|---|--------|-------|
| 2008-09 | CT#41 | CP-080463 | 0124 | | New AVP Code Assignment for Forking Service Restoration | 8.2.0 | 8.3.0 |
| 2008-12 | CT#42 | CP-080691 | | 2 | Diameter Protocol Codes Assignments for S6a/S6d/S13 | 8.3.0 | 8.4.0 |
| 2008-12 | CT#42 | CP-080691 | | | Diameter code assignments for 3GPP TS 29.273 | 8.3.0 | 8.4.0 |
| 2009-03 | CT#43 | CP-090044 | 0130 | 1 | Update for ReadyForSM | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090044 | 0131 | 1 | Handling LCS Subscription Data | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090026 | 0132 | | Update for Restoration | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | | | Applds for Gxx and S9 | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090033 | 0134 | 2 | Appld and command code for Zpn | 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-090024 | | | Diameter AVP Code allocation | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | 0140 | 1 | Location of Permanent Failure result code range for the S9 | 8.4.0 | 8.5.0 |
| | | | | | application | | |
| 2009-03 | CT#43 | CP-090024 | | | AVPs for TS 29.273 | 8.4.0 | 8.5.0 |
| 2009-03 | CT#43 | CP-090024 | | | Error code allocation for authentication failure | 8.4.0 | 8.5.0 |
| 2009-06 | CT#44 | CP-090299 | | 4 | Update of the AVP Codes | 8.5.0 | 8.6.0 |
| | | CP-090299 | | | AVP code reservation for TS 32.299 | 1 | |
| | | CP-090299 | | | Diameter Command Codes for S6a/S6d/S13/S13" | 4 | |
| | 1 | 00.0000 | 0146 | | Removal of Requesting Node Type from AIR | 4 | |
| | 0 | CP-090299 | | | S6b Application ID | | |
| 2009-09 | CT#45 | CP-090530 | | | Allocation of Experimental-Result-Codes for S9 protocol | 8.6.0 | 8.7.0 |
| | | CP-090530 | | | AVP code allocation for TS 29.212 | 1 | |
| | | CP-090531 | | | Update of the AVP type for the User-Id | 1 | |
| | 0=:::= | CP-090531 | | | Trace Depth per session | | |
| 2009-09 | CT#45 | CP-090557 | | _ | AVP code range for charging | 8.7.0 | 9.0.0 |
| 2009-12 | CT#46 | CP-090800 | | 1 | ICS-Flag | 9.0.0 | 9.1.0 |
| | } | CP-091032 | | | From GMLC-Address to GMLC-Number | | } |
| | | | 0160 0163 | 2 | Session-Priority AVP Introduction of SLh application related AVPs and Experimental | | |
| | | | 0103 | 2 | Result codes | | |
| | | | 0166 | | Missing AVP error codes | | ł |
| | | CP-090797 | | 1 | Introduction of SLg application related AVPs and Application | | |
| | | 0. 000.0. | 0.07 | ľ | Identifier | | |
| 2010-03 | CT#47 | CP-100031 | 0158 | 1 | Wildcarded Public Identity | 9.1.0 | 9.2.0 |
| | 1 | CP-100034 | | | Correction on AVP code allocation reservation for TS 32.299 in | | İ |
| | | | | | Rel-9 | | |
| | Ì | CP-100046 | 0169 | 1 | AVP code allocation for 29.172 | | |
| | | CP-100036 | | | GPL_U support in TS 29.109 | | |
| | | CP-100046 | | | Error codes in 29.172 for SLg | | |
| | | CP-100048 | | 1 | AVPs in 29.272 for TADS support | | |
| | | CP-100040 | | | Error codes in 29.272 for Unknown MME | | |
| | ļ | CP-100236 | | 4 | EPS Subcsriber State and Location Information Request | | 1 |
| | | CP-100033 | | | One time notification AVP allocation | | |
| | | CP-100046 | | | Addition of the LCS-QoS-Class attribute value | | |
| 2040.00 | CT#40 | CP-100175 | | 4 | Introduction of the LCS-Capabilities-Sets AVP in SLh interface | 0.00 | 0.00 |
| 2010-06 | CT#48 | CP-100263 | | 1 | AVP Codes for PCC | 9.2.0 | 9.3.0 |
| | | CP-100287 | 0183 | | EPS state and location retrieval SGmb Application ID | | |
| | | CP-100287 | | 1 | New APVs in S6a protocol | 1 | |
| 2010-09 | CT#49 | CP-100463 | | | Addition of Diameter codes and identifiers for the SLg and SLh | 9.3.0 | 9.4.0 |
| 2010 03 | 01#45 | 01 100403 | 0137 | ' | interfaces | 5.5.0 | 5.4.0 |
| | | CP-100464 | 0196 | | AVP Codes Allocation for PCC | | |
| 2010-09 | CT#49 | CP-100465 | | 1 | SIPTO Permission Indicator | 9.4.0 | 10.0. |
| | | CP-100466 | | | Location data including only serving node address | | Ì |
| | İ | CP-100466 | 0199 | 1 | AVP for Update-Eff feature | | Î |
| 2010-12 | CT#50 | CP-100699 | | | Enhanced SRVCC Subscriber Data | 10.0.0 | 10.1. |
| | | CP-100687 | | | Allocate codes for AVPs on eMPS | | |
| | | CP-100683 | | | Allocate codes for AVPs on LIPA | | |
| | | CP-100688 | | | Periodic TAU/RAU timer in HSS subscription | | |
| | | CP-100846 | | 1 | S6a Error Diagnostic | | |
| 2011-03 | CT#51 | CP-110051 | | | PDP-Address correction | 10.1.0 | 10.2. |
| | | CP-110054 | 0215 | | Essential correction on the value type of the ELP Application | | |
| | | OD 44222 | 000= | 0 | AVPs | 1 | |
| | | CP-110087 | | | Minimization of Drive Tests (MDT) | 4 | |
| 2011.00 | CT#FO | CP-110088 | | | Relay Node Indicator AVPs | 10.2.2 | 40.0 |
| 2011-06 | CT#52 | CP-110349 | | | Handling of RTR for Emergency Registration | 10.2.0 | 10.3. |
| | | CP-110347 CP-110359 | | 1 | Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces | 1 | |
| | | CP-110359 CP-110380 | | | MDT user consent | 1 | |
| | | CP-110380 CP-110370 | | | AVP Code Allocation for Pre-paging | + | |
| | | CP-110370 | | 1 | PUR-Flags AVP | 1 | |
| | | | | | AVP code alignment with 29.212 | 40.00 | 40.4 |
| 2011-09 | CT#53 | CP-110559 | 0236 | | AVP Code alluminent with 29.212 | 10.3.0 | 10.4. |

| I | 1 | CP-110554 | 0244 | 1 | AVP code alignment with 29.214 | | |
|---------|-------|-----------|------|---|---|---------|---------|
| | ł | | _ | | | | |
| | | CP-110552 | | | Experimental Result Code Alignment with 29.061 | | ļ |
| | | CP-110555 | 0252 | | Failure code and AVP code alignment with 29.212 | | |
| | | CP-110722 | 0257 | 2 | Priviledged sender | | |
| 2011-12 | CT#54 | CP-110775 | 0261 | | New AVP codes for MBMS IP unicast encapsulation | 10.4.0 | 10.5.0 |
| | | CP-110775 | 0264 | | New AVP codes for MBMS IP multicast encapsulation | | |
| | | CP-110786 | 0270 | 1 | MME-Identity AVP code allocation | | |
| | | CP-110781 | 0280 | 1 | Restoration of Wildcarded-IMPU AVP | | |
| 2012-03 | CT#55 | CP-120025 | 0292 | | Codes Allocation for AVPs on Initial Attach | 10.5.0 | 10.6.0 |
| 2012-06 | CT#56 | CP-120219 | 0303 | | Duplicated AVP names | 10.6.0 | 10.7.0 |
| | | CP-120225 | 0295 | 1 | Trust Relationship Indication | | |
| 2012-09 | CT#57 | CP-120666 | 0311 | 1 | GMLC-Name | 10.7.0 | 10.8.0 |
| 2012-12 | CT#58 | CP-120716 | 0322 | 1 | AVP name modification in TS 32.299 | 10.8.0 | 10.9.0 |
| 2013-06 | CT#60 | CP-130279 | 0352 | 1 | Definition of SS Status for Call Barring | 10.9.0 | 10.10.0 |
| | | | 0356 | - | Diameter AVP codes for new TS 32.299 AVPs | | |
| 2013-12 | CT#62 | CP-130600 | 0374 | - | Allocation of Diameter codes for 32.299 | 10.10.0 | 10.11.0 |
| 2014-06 | CT#64 | CP-140231 | 0388 | - | Adding Codes for 29.214 | 10.11.0 | 10.12.0 |
| | | CP-140257 | 0395 | - | SS-Status AVP Definition | | |
| 2014-12 | CT#66 | CP-140756 | 0414 | - | code definitions for 32.299 | 10.12.0 | 10.13.0 |

History

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