

## Standard 3GPP Gy (32.299) Dictionary

| Attribute                        | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | ASA | ASR | CCA | CCR | RAA | RAR |
|----------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|
| 3GPP2-BSID                       | 9010     | 5535      | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-Charging-Characteristics    | 13       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-Charging-Id                 | 2        | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-GGSN-MCC-MNC                | 9        | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-GPRS-QoS-Negotiated-Profile | 5        | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-IMSI-MCC-MNC                | 8        | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-MS-TimeZone                 | 23       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-NSAPI                       | 10       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-PDP-Type                    | 3        | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-Quota-Consumption-Time      | 881      | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-Quota-Holding-Time          | 871      | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-RAT-Type                    | 21       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-Reporting-Reason            | 872      | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0   |
| 3GPP-Selection-Mode              | 12       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-Session-Stop-Indicator      | 11       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-SGSN-MCC-MNC                | 18       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-Time-Quota-Threshold        | 868      | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-Unit-Quota-Threshold        | 1226     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-User-Location-Info          | 22       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| 3GPP-Volume-Quota-Threshold      | 869      | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| AF-Correlation-Information       | 1276     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0   |
| Auth-Application-Id              | 258      | 0         | UINT32      | 1      | 0      | 0   | 1   | 1   | 1   | 0   | 1   |
| Called-Station-Id                | 30       | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| CC-Input-Octets                  | 412      | 0         | UINT64      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| CC-Output-Octets                 | 414      | 0         | UINT64      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| CC-Request-Number                | 415      | 0         | UINT32      | 1      | 0      | 0   | 0   | 1   | 1   | 0   | 0   |
| CC-Request-Type                  | 416      | 0         | ENUM        | 1      | 0      | 0   | 0   | 1   | 1   | 0   | 0   |
| CC-Service-Specific-Units        | 417      | 0         | UINT64      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| CC-Session-Failover              | 418      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0   | 0   | 0   |
| CC-Time                          | 420      | 0         | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| CC-Total-Octets                  | 421      | 0         | UINT64      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| CG-Address                       | 846      | 10415     | ADDRESS     | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Charging-Rule-Base-Name          | 1004     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Cost-Information                 | 423      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0   | 0   |
| Credit-Control-Failure-Handling  | 427      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0   | 0   | 0   |
| Destination-Host                 | 293      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 |

| Attribute                        | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | ASA | ASR | CCA | CCR | RAA | RAR |
|----------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|
| Destination-Realm                | 283      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 0   | 1   | 0   | 1   |
| Direct-Debiting-Failure-Handling | 428      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0   | 0   | 0   |
| Dynamic-Address-Flag             | 2051     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Envelope                         | 1266     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0   |
| Envelope-End-Time                | 1267     | 10415     | TIME        | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Envelope-Reporting               | 1268     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Envelope-Start-Time              | 1269     | 10415     | TIME        | 1      | 0      | 0   | 0   | 1   | 1   | 0   | 0   |
| Error-Message                    | 281      | 0         | UTF8STRING  | 0      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   |
| Event-Timestamp                  | 55       | 0         | TIME        | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   |
| Failed-AVP                       | 279      | 0         | GROUPED     | 1      | 0      | 0+  | 0   | 0+  | 0   | 0+  | 0   |
| Final-Unit-Indication            | 430      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| GGSN-Address                     | 847      | 10415     | ADDRESS     | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Granted-Service-Unit             | 431      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| G-S-U-Pool-Reference             | 457      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0   |
| Multiple-Services-Credit-Control | 456      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0   |
| Multiple-Services-Indicator      | 455      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   |
| Offline-Charging                 | 1278     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Origin-Host                      | 264      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   |
| Origin-Realm                     | 296      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   |
| Origin-State-Id                  | 278      | 0         | UINT32      | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   |
| PDN-Connection-ID                | 2050     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| PDP-Address                      | 1227     | 10415     | ADDRESS     | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0   |
| PDP-Context-Type                 | 1247     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Proxy-Info                       | 284      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0   |
| PS-Furnish-Charging-Information  | 865      | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| PS-Information                   | 874      | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| QoS-Information                  | 1016     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Rating-Group                     | 432      | 0         | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0-1 |
| Re-Auth-Request-Type             | 285      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 1   |
| Redirect-Host                    | 292      | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0+  | 0   | 0   | 0   |
| Redirect-Host-Usage              | 261      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0   | 0   | 0   |
| Redirect-Max-Cache-Time          | 262      | 0         | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0   | 0   | 0   |
| Requested-Action                 | 436      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   |
| Requested-Service-Unit           | 437      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Result-Code                      | 268      | 0         | ENUM        | 1      | 0      | 1   | 0   | 1   | 0-1 | 1   | 0   |
| Route-Record                     | 282      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0   |
| Service-Context-Id               | 461      | 0         | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 1   | 0   | 0   |
| Service-Identifier               | 439      | 0         | UINT32      | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0-1 |
| Service-Information              | 873      | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |

| Attribute            | AVP Code | Vendor-Id | AVP Type   | M Flag | P Flag | ASA | ASR | CCA | CCR | RAA | RAR |
|----------------------|----------|-----------|------------|--------|--------|-----|-----|-----|-----|-----|-----|
| Serving-Node-Type    | 2047     | 10415     | ENUM       | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Session-Id           | 263      | 0         | UTF8STRING | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   |
| SGSN-Address         | 1228     | 10415     | ADDRESS    | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Start-Time           | 2041     | 10415     | TIME       | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Stop-Time            | 2042     | 10415     | TIME       | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Subscription-Id      | 443      | 0         | GROUPED    | 1      | 0      | 0   | 0   | 0   | 0+  | 0   | 0   |
| Tariff-Time-Change   | 451      | 0         | TIME       | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Terminal-Information | 6002     | 10415     | GROUPED    | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Termination-Cause    | 295      | 0         | ENUM       | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   |
| Time-Quota-Mechanism | 1270     | 10415     | GROUPED    | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Trigger              | 1264     | 10415     | GROUPED    | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Used-Service-Unit    | 446      | 0         | GROUPED    | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0   |
| User-Equipment-Info  | 458      | 0         | GROUPED    | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| User-Name            | 1        | 0         | UTF8STRING | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 | 0-1 | 0-1 |
| Validity-Time        | 448      | 0         | UINT32     | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   |

Standard Cx Dictionary

| Attribute                                   | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | LIA | LIR | MAA | MAR | PPA | PPR | RTA | RTR | SAA | SAR | UAA | UAR |
|---|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 3GPP-User-Data                              | 606      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0-1 | 0   | 0   | 0   |
| Acct-Application-Id                         | 259      | 0         | UINT32      | 1      | 0      | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| Associated-Identities                       | 632      | 10415     | GROUPED     | 0      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0-1 | 0-1 | 0-1 | 0   | 0   | 0   |
| Auth-Application-Id                         | 258      | 0         | UINT32      | 1      | 0      | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| Auth-Session-State                          | 277      | 0         | ENUM        | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Charging-Information                        | 618      | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0-1 | 0   | 0   | 0   |
| Confidentiality-Key                         | 625      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Deregistration-Reason                       | 615      | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Destination-Host                            | 293      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0-1 | 0   | 0-1 | 0   | 1   | 0   | 1   | 0   | 0-1 | 0   | 0-1 |
| Destination-Realm                           | 283      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 0   | 1   | 0   | 1   | 0   | 1   | 0   | 1   | 0   | 1   |
| Experimental-Result                         | 297      | 0         | GROUPED     | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Experimental-Result-Code                    | 298      | 0         | ENUM        | 1      | 0      | 1   | 0   | 1   | 0   | 1   | 0   | 1   | 0   | 1   | 0   | 1   | 0   |
| Failed-AVP                                  | 279      | 0         | GROUPED     | 1      | 0      | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   |
| Feature-List                                | 630      | 10415     | UINT32      | 0      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Feature-List-ID                             | 629      | 10415     | UINT32      | 0      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Framed-Interface-Id                         | 96       | 0         | UINT64      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Framed-IP-Address                           | 8        | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Framed-IPv6-Prefix                          | 97       | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Integrity-Key                               | 626      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Mandatory-Capability                        | 604      | 10415     | UINT32      | 1      | 0      | 0+  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0+  | 0   |
| Optional-Capability                         | 605      | 10415     | UINT32      | 1      | 0      | 0+  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0+  | 0   |
| Originating-Request                         | 633      | 10415     | ENUM        | 1      | 0      | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Origin-Host                                 | 264      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Origin-Realm                                | 296      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Primary-Charging-Collection-Function-Name   | 621      | 10415     | DIAMURI     | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0-1 | 0   | 0   | 0   |
| Primary-Event-Charging-Function-Name        | 619      | 10415     | DIAMURI     | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0-1 | 0   | 0   | 0   |
| Proxy-Host                                  | 280      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Proxy-Info                                  | 284      | 0         | GROUPED     | 1      | 0      | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  |
| Proxy-State                                 | 33       | 0         | OCTETSTRING | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Public-Identity                             | 601      | 10415     | UTF8STRING  | 1      | 0      | 0   | 1   | 0-1 | 1   | 0   | 0   | 0   | 0+  | 0   | 0+  | 0   | 1   |
| Reason-Code                                 | 616      | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Reason-Info                                 | 617      | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| Redirect-Host                               | 292      | 0         | DIAMURI     | 1      | 0      | 0+  | 0   | 0+  | 0   | 0   | 0   | 0   | 0   | 0+  | 0   | 0+  | 0   |
| Redirect-Host-Usage                         | 261      | 0         | ENUM        | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0-1 | 0   |
| Result-Code                                 | 268      | 0         | ENUM        | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Route-Record                                | 282      | 0         | DIAMIDENT   | 1      | 0      | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  |
| Secondary-Charging-Collection-Function-Name | 622      | 10415     | DIAMURI     | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0-1 | 0   | 0   | 0   |
| Secondary-Event-Charging-Function-Name      | 620      | 10415     | DIAMURI     | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0-1 | 0   | 0   | 0   |
| Server-Assignment-Type                      | 614      | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   |
| Server-Capabilities                         | 603      | 10415     | GROUPED     | 1      | 0      | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   |
| Server-Name                                 | 602      | 10415     | UTF8STRING  | 1      | 0      | 0-1 | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 1   | 0-1 | 0   |
| Session-Id                                  | 263      | 0         | UTF8STRING  | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| SIP-Auth-Data-Item                          | 612      | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0+  | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| SIP-Authenticate                            | 609      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| SIP-Authentication-Context                  | 611      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| SIP-Authentication-Scheme                   | 608      | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| SIP-Authorization                           | 610      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| SIP-Digest-Authenticate                     | 635      | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| SIP-Item-Number                             | 613      | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| SIP-Number-Auth-Items                       | 607      | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Supported-Applications                      | 631      | 10415     | GROUPED     | 0      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

| Attribute                      | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | LIA | LIR | MAA | MAR | PPA | PPR | RTA | RTR | SAA | SAR | UAA | UAR |
|--------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Supported-Features             | 628      | 10415     | GROUPED     | 1      | 0      | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  |
| UAR-Flags                      | 637      | 10415     | UINT32      | 0      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0-1 |
| User-Authorization-Type        | 623      | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0-1 |
| User-Data-Already-Available    | 624      | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   |
| User-Name                      | 1        | 0         | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 1   | 0   | 1   | 0+  | 1   | 0-1 | 0-1 | 0   | 1   |
| Vendor-Id                      | 266      | 0         | UINT32      | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Vendor-Specific-Application-Id | 260      | 0         | GROUPED     | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Visited-Network-Identifier     | 600      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   |
| Wildcarded-PSI                 | 634      | 10415     | UTF8STRING  | 0      | 0      | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   |

## Standard Sh/HSS Dictionary

| Attribute                      | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | PUA | PUR | PNA | PNR | SNA | SNR | UDA | UDR |
|--------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| Auth-Session-State             | 277      | 0         | ENUM        | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Current-Location               | 707      | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0-1 |
| Data-Reference                 | 703      | 10415     | ENUM        | 1      | 0      | 0   | 1   | 0   | 1   | 0   | 1   | 0   | 1   |
| Destination-Host               | 293      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 |
| Destination-Realm              | 283      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 0   | 1   | 0   | 1   | 0   | 1   |
| Experimental-Result            | 297      | 0         | GROUPED     | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Experimental-Result-Code       | 298      | 0         | ENUM        | 1      | 0      | 1   | 0   | 1   | 0   | 1   | 0   | 1   | 0   |
| Failed-AVP                     | 279      | 0         | GROUPED     | 1      | 0      | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   |
| Feature-List                   | 630      | 10415     | UINT32      | 0      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Feature-List-ID                | 629      | 10415     | UINT32      | 0      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Identity-Set                   | 708      | 10415     | ENUM        | 0      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0-1 |
| MSISDN                         | 701      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 |
| Origin-Host                    | 264      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Origin-Realm                   | 296      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Proxy-Info                     | 284      | 0         | GROUPED     | 1      | 0      | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  |
| Public-Identity                | 601      | 10415     | UTF8STRING  | 1      | 0      | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 |
| Requested-Domain               | 706      | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0-1 |
| Result-Code                    | 268      | 0         | ENUM        | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Route-Record                   | 282      | 0         | DIAMIDENT   | 1      | 0      | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  |
| Send-Data-Indication           | 710      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   |
| Server-Name                    | 602      | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0-1 |
| Service-Indication             | 704      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0+  | 0   | 0-1 |
| Session-Id                     | 263      | 0         | UTF8STRING  | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Subs-Req-Type                  | 705      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   |
| Supported-Features             | 628      | 10415     | GROUPED     | 1      | 0      | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  |
| User-Data                      | 702      | 10415     | OCTETSTRING | 1      | 0      | 0   | 1   | 0   | 1   | 0-1 | 0   | 0-1 | 0   |
| User-Identity                  | 700      | 10415     | GROUPED     | 1      | 0      | 0   | 1   | 0   | 1   | 0   | 1   | 0   | 1   |
| User-Name                      | 1        | 0         | UTF8STRING  | 1      | 0      | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   |
| Vendor-Id                      | 266      | 0         | UINT32      | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Vendor-Specific-Application-Id | 260      | 0         | GROUPED     | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |

## Standard Gmb Proxy Interface Dictionary

| Attribute                      | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | ASA | ASR | AAA | AAR | RAA | RAR | STA | STR |
|--------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| 3GPP-IMEISV                    | 20       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| 3GPP-IMSI                      | 1        | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   |
| 3GPP-MS-TimeZone               | 23       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| 3GPP-RAT-Type                  | 21       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| 3GPP-SGSN-Address              | 6        | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0+  | 0   | 0   |
| 3GPP-User-Location-Info        | 22       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| Additional-MBMS-Trace-Info     | 910      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0-1 |
| Alternative-APN                | 905      | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Auth-Application-Id            | 258      | 0         | UINT32      | 1      | 0      | 0   | 1   | 1   | 1   | 0   | 1   | 0   | 1   |
| Auth-Request-Type              | 274      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Called-Station-Id              | 30       | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   |
| Calling-Station-Id             | 31       | 0         | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| Class                          | 25       | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0+  | 0+  |
| Destination-Host               | 293      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 0   | 0-1 | 0   | 1   | 0   | 0-1 |
| Destination-Realm              | 283      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 0   | 1   | 0   | 1   | 0   | 1   |
| Error-Message                  | 281      | 0         | UTF8STRING  | 0      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Error-Reporting-Host           | 294      | 0         | DIAMIDENT   | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Experimental-Result            | 297      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   |
| Failed-AVP                     | 279      | 0         | GROUPED     | 1      | 0      | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   |
| Framed-Interface-Id            | 96       | 0         | UINT64      | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   |
| Framed-IP-Address              | 8        | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   |
| Framed-IPv6-Prefix             | 97       | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   |
| MBMS-2G-3G-Indicator           | 907      | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   |
| MBMS-BMSC-SSM-IP-Address       | 918      | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   |
| MBMS-BMSC-SSM-IPv6-Address     | 919      | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   |
| MBMS-Counting-Information      | 914      | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   |
| MBMS-GGSN-Address              | 916      | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   |
| MBMS-GGSN-IPv6-Address         | 917      | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   |
| MBMS-Required-QoS              | 913      | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   |
| MBMS-Service-Area              | 903      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   |
| MBMS-Service-Type              | 906      | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   |
| MBMS-Session-Duration          | 904      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   |
| MBMS-Session-Identity          | 908      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   |
| MBMS-Session-Repetition-number | 912      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   |
| MBMS-StartStop-Indication      | 902      | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| MBMS-Time-To-Data-Transfer     | 911      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   |
| MBMS-User-Data-Mode-Indication | 915      | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Origin-Host                    | 264      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Origin-Realm                   | 296      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Origin-State-Id                | 278      | 0         | UINT32      | 1      | 0      | 0-1 | 0-1 | 0   | 0   | 0-1 | 0-1 | 0-1 | 0-1 |
| Proxy-Info                     | 284      | 0         | GROUPED     | 1      | 0      | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  |

| Attribute                         | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | ASA | ASR | AAA | AAR | RAA | RAR | STA | STR |
|-----------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| RAI                               | 909      | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| Re-Auth-Request-Type              | 285      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   |
| Redirect-Host                     | 292      | 0         | OCTETSTRING | 1      | 0      | 0+  | 0   | 0   | 0   | 0+  | 0   | 0+  | 0   |
| Redirect-Host-Usage               | 261      | 0         | ENUM        | 1      | 0      | 0-1 | 0   | 0   | 0   | 0-1 | 0   | 0-1 | 0   |
| Redirect-Max-Cache-Time           | 262      | 0         | UINT32      | 1      | 0      | 0-1 | 0   | 0   | 0   | 0-1 | 0   | 0-1 | 0   |
| Required-MBMS-Bearer-Capabilities | 901      | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Result-Code                       | 268      | 0         | ENUM        | 1      | 0      | 1   | 0   | 0-1 | 0   | 0-1 | 0   | 1   | 0   |
| Route-Record                      | 282      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  |
| Session-Id                        | 263      | 0         | UTF8STRING  | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Termination-Cause                 | 295      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   |
| TMGI                              | 900      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0   | 0   | 0-1 | 0   | 0   |



## Standard Rel. 7 Gx Dictionary

| Attribute                             | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | ASA | ASR | CEA | CER | CCA | CCR | DWA | DWR | DPA | DPR | RAA | RAR |
|---------------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 3GPP-MS-TimeZone                      | 23       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| 3GPP-RAT-Type                         | 21       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0-1 | 0   |
| 3GPP-SGSN-Address                     | 6        | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0-1 | 0   |
| 3GPP-SGSN-IPv6-Address                | 15       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   |
| 3GPP-SGSN-MCC-MNC                     | 18       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0-1 | 0   |
| 3GPP-User-Location-Info               | 22       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0-1 | 0   |
| Access-Network-Charging-Address       | 501      | 10415     | ADDRESS     | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0-1 | 0   |
| Access-Network-Charging-Identifier-Gx | 1022     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0+  | 0   | 0   | 0   | 0   | 0+  | 0   |
| Acct-Application-Id                   | 259      | 0         | UINT32      | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Auth-Application-Id                   | 258      | 0         | UINT32      | 1      | 0      | 1   | 1   | 0+  | 0+  | 1   | 1   | 0   | 0   | 0   | 0   | 0   | 1   |
| Bearer-Control-Mode                   | 1023     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Bearer-Identifier                     | 1020     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0-1 |
| Bearer-Operation                      | 1021     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| Bearer-Usage                          | 1000     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| Called-Station-Id                     | 30       | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| CC-Request-Number                     | 415      | 0         | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   | 0   | 0   |
| CC-Request-Type                       | 416      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   | 0   | 0   |
| Charging-Information                  | 618      | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Charging-Rule-Base-Name               | 1004     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0+  | 0+  | 0   | 0   | 0   | 0   | 0+  | 0+  |
| Charging-Rule-Definition              | 1003     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0+  | 0   | 0   | 0   | 0   | 0   | 0   | 0+  |
| Charging-Rule-Install                 | 1001     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0+  | 0   | 0   | 0   | 0   | 0   | 0   | 0+  |
| Charging-Rule-Name                    | 1005     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0+  | 0+  | 0   | 0   | 0   | 0   | 0+  | 0+  |
| Charging-Rule-Remove                  | 1002     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0+  | 0   | 0   | 0   | 0   | 0   | 0   | 0+  |
| Charging-Rule-Report                  | 1018     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0+  | 0   | 0   | 0   | 0   | 0+  | 0   |
| Destination-Host                      | 293      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0-1 | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 1   |
| Destination-Realm                     | 283      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 1   |
| Disconnect-Cause                      | 273      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   |
| Error-Message                         | 281      | 0         | UTF8STRING  | 0      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Error-Reporting-Host                  | 294      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   |
| Event-Trigger                         | 1006     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0+  | 0+  | 0   | 0   | 0   | 0   | 0   | 0+  |
| Experimental-Result                   | 297      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   |
| Failed-AVP                            | 279      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0+  | 0   | 0+  | 0   | 0-1 | 0   | 0+  | 0   | 0+  | 0   |
| Feature-List                          | 630      | 10415     | UINT32      | 0      | 0      | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   | 0   | 0   |
| Feature-List-ID                       | 629      | 10415     | UINT32      | 0      | 0      | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   | 0   | 0   |
| Final-Unit-Indication                 | 430      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0-1 | 0   |
| Firmware-Revision                     | 267      | 0         | UINT32      | 0      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Framed-IP-Address                     | 8        | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| Framed-IPv6-Prefix                    | 97       | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| Granted-Service-Unit                  | 431      | 0         | GROUPED     | 0      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Guaranteed-Bitrate-DL                 | 1025     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0-1 |
| Guaranteed-Bitrate-UL                 | 1026     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0-1 |
| Host-IP-Address                       | 257      | 0         | ADDRESS     | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Inband-Security-Id                    | 299      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| IP-CAN-Type                           | 1027     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0-1 | 0   |
| Max-Requested-Bandwidth-DL            | 515      | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0-1 |
| Max-Requested-Bandwidth-UL            | 516      | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0-1 |
| Network-Request-Support               | 1024     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| Offline                               | 1008     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| Online                                | 1009     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| Origin-Host                           | 264      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Origin-Realm                          | 296      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |

| Attribute                                   | AVP Code | Vendor-Id | AVP Type     | M Flag | P Flag | ASA | ASR | CEA | CER | CCA | CCR | DWA | DWR | DPA | DPR | RAA | RAR |
|---|----------|-----------|--------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Origin-State-Id                             | 278      | 0         | UINT32       | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0   | 0   | 0-1 | 0-1 |
| PCC-Rule-Status                             | 1019     | 10415     | ENUM         | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0-1 | 0   |
| Precedence                                  | 1010     | 10415     | UINT32       | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| Primary-Charging-Collection-Function-Name   | 621      | 10415     | DIAMURI      | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Primary-Event-Charging-Function-Name        | 619      | 10415     | DIAMURI      | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Product-Name                                | 269      | 0         | UTF8STRING   | 0      | 0      | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Proxy-Info                                  | 284      | 0         | GROUPED      | 1      | 0      | 0   | 0   | 0   | 0   | 0+  | 0+  | 0   | 0   | 0   | 0   | 0+  | 0+  |
| QoS-Class-Identifier                        | 1028     | 10415     | ENUM         | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0-1 |
| QoS-Information                             | 1016     | 10415     | GROUPED      | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0-1 |
| QoS-Negotiation                             | 1029     | 10415     | ENUM         | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| QoS-Upgrade                                 | 1030     | 10415     | ENUM         | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| RAI   | 909      | 10415     | UTF8STRING   | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0-1 | 0   |
| Re-Auth-Request-Type                        | 285      | 0         | ENUM         | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   |
| Result-Code                                 | 268      | 0         | ENUM         | 1      | 0      | 1   | 0   | 1   | 0   | 0-1 | 0   | 1   | 0   | 1   | 0   | 0-1 | 0   |
| Revalidation-Time                           | 1042     | 10415     | TIME         | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0-1 |
| Route-Record                                | 282      | 0         | DIAMIDENT    | 1      | 0      | 0   | 0   | 0   | 0   | 0+  | 0+  | 0   | 0   | 0   | 0   | 0   | 0+  |
| Rule-Activation-Time                        | 1043     | 10415     | TIME         | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0-1 |
| Rule-Deactivation-Time                      | 1044     | 10415     | TIME         | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0-1 |
| Rule-Failure-Code                           | 1031     | 10415     | ENUM         | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0-1 | 0   |
| Secondary-Charging-Collection-Function-Name | 622      | 10415     | DIAMURI      | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Secondary-Event-Charging-Function-Name      | 620      | 10415     | DIAMURI      | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Session-Id                                  | 263      | 0         | UTF8STRING   | 1      | 0      | 1   | 1   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   | 1   | 1   |
| Session-Release-Cause                       | 1045     | 10415     | ENUM         | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0-1 |
| Subscription-Id                             | 443      | 0         | GROUPED      | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0+  | 0   | 0   | 0   | 0   | 0   | 0   |
| Supported-Features                          | 628      | 10415     | GROUPED      | 0      | 0      | 0   | 0   | 0   | 0   | 0+  | 0+  | 0   | 0   | 0   | 0   | 0   | 0   |
| Supported-Vendor-Id                         | 265      | 0         | UINT32       | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Termination-Cause                           | 295      | 0         | ENUM         | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| TFT-Filter                                  | 1012     | 10415     | IPFILTERRULE | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| TFT-Packet-Filter-Information               | 1013     | 10415     | GROUPED      | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0+  | 0   | 0   | 0   | 0   | 0   | 0   |
| ToS-Traffic-Class                           | 1014     | 10415     | OCTETSTRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| Usage-Monitoring-Information                | 1067     | 10415     | GROUPED      | 0      | 0      | 0   | 0   | 0   | 0   | 0+  | 0+  | 0   | 0   | 0   | 0   | 0   | 0+  |
| Used-Service-Unit                           | 446      | 0         | GROUPED      | 0      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| User-Equipment-Info                         | 458      | 0         | GROUPED      | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   |
| User-Name                                   | 1        | 0         | UTF8STRING   | 1      | 0      | 0-1 | 0-1 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Vendor-Id                                   | 266      | 0         | UINT32       | 1      | 0      | 0   | 0   | 1   | 1   | 1   | 1   | 0   | 0   | 0   | 0   | 0   | 0   |
| Vendor-Specific-Application-Id              | 260      | 0         | GROUPED      | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

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| Attribute                                 | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | AIA | AIR | CLA | CLR | DSDA | DSDR | ISDA | ISDR | NA  | NR  | PUAM | PURM | RA  | RR | ULA | ULR |     |
|---|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|------|------|------|------|-----|-----|------|------|-----|----|-----|-----|-----|
| 3GPP2-MEID                                | 1471     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0-1 | 0    | 0    | 0   | 0  | 0   | 0   | 0-1 |
| 3GPP-Charging-Characteristics             | 13       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0-1 | 0   |
| Access-Restriction-Data                   | 1426     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0-1 | 0   |
| Alert-Reason                              | 1434     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0-1 | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| All-APN-Configurations-Included-Indicator | 1428     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 1    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 1   | 0   |
| Allocation-Retention-Priority             | 1034     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| AMBR                                      | 1435     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0-1 | 0   |
| APN-Configuration                         | 1430     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0+   | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0+  | 0   |
| APN-Configuration-Profile                 | 1429     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0-1 | 0   |
| APN-OI-Replacement                        | 1427     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0-1 | 0   |
| Authentication-Info                       | 1413     | 10415     | GROUPED     | 1      | 0      | 0-1 | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| Auth-Session-State                        | 277      | 0         | ENUM        | 1      | 0      | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1   | 1   | 1    | 1    | 1   | 1  | 1   | 1   | 1   |
| AUTN                                      | 1449     | 10415     | OCTETSTRING | 1      | 0      | 1   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| Call-Barring-Info-List                    | 1488     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0-1 | 0   |
| Cancellation-Type                         | 1420     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 1   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| Complete-Data-List-Included-Indicator     | 1468     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 1    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 1   | 0   |
| Confidentiality-Key                       | 625      | 10415     | OCTETSTRING | 1      | 0      | 1   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| Context-Identifier                        | 1423     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0+   | 0    | 1    | 0   | 0-1 | 0    | 0    | 0   | 0  | 0   | 1   | 0   |
| CSG-Id                                    | 1437     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 1    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 1   | 0   |
| CSG-Subscription-Data                     | 1436     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0+   | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0+  | 0   |
| Destination-Host                          | 293      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0-1 | 0   | 1   | 0    | 1    | 0    | 1    | 0   | 0-1 | 0    | 0-1  | 0   | 1  | 0   | 0   | 0-1 |
| Destination-Realm                         | 283      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 0   | 1   | 0    | 1    | 0    | 1    | 0   | 1   | 0    | 1    | 0   | 1  | 0   | 0   | 1   |
| DSA-Flags                                 | 1422     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0-1  | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| DSR-Flags                                 | 1421     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 1    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| EPS-Subscribed-QoS-Profile                | 1431     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| EUTRAN-Vector                             | 1414     | 10415     | GROUPED     | 1      | 0      | 0+  | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| Experimental-Result                       | 297      | 0         | GROUPED     | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1  | 0    | 0-1  | 0    | 0-1 | 0   | 0-1  | 0    | 0-1 | 0  | 0-1 | 0   | 0   |
| Expiration-Date                           | 1439     | 0         | TIME        | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 1    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 1   | 0   |
| External-Client                           | 1479     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0+   | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0+  | 0   |
| Failed-AVP                                | 279      | 0         | GROUPED     | 1      | 0      | 0+  | 0   | 0+  | 0   | 0+   | 0    | 0+   | 0    | 0+  | 0   | 0+   | 0    | 0+  | 0  | 0   | 0+  | 0   |
| Feature-List                              | 630      | 10415     | UINT32      | 0      | 0      | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1   | 1   | 1    | 1    | 1   | 1  | 1   | 1   | 1   |
| Feature-List-ID                           | 629      | 10415     | UINT32      | 0      | 0      | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1   | 1   | 1    | 1    | 1   | 1  | 1   | 1   | 1   |
| GERAN-Vector                              | 1416     | 10415     | GROUPED     | 1      | 0      | 0+  | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| GMLC-Number                               | 1474     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0+   | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0+  | 0   |
| GMLC-Restriction                          | 1481     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0-1 | 0   |
| GPRS-Subscription-Data                    | 1467     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0-1 | 0   |
| HPLMN-ODB                                 | 1418     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0-1 | 0   |
| IDA-Flags                                 | 1441     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0-1  | 0    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| IDR-Flags                                 | 1490     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| IMEI                                      | 1402     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0-1 | 0    | 0    | 0   | 0  | 0   | 0   | 0-1 |
| Immediate-Response-Preferred              | 1412     | 10415     | UINT32      | 1      | 0      | 0   | 0-1 | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| Integrity-Key                             | 626      | 10415     | OCTETSTRING | 1      | 0      | 1   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| Item-Number                               | 1419     | 10415     | UINT32      | 1      | 0      | 0-1 | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| LCS-Info                                  | 1473     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0-1 | 0   |
| LCS-PrivacyException                      | 1475     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0+   | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0+  | 0   |
| Max-Requested-Bandwidth-DL                | 515      | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 1    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 1   | 0   |
| Max-Requested-Bandwidth-UL                | 516      | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 1    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 1   | 0   |
| MIP6-Agent-Info                           | 486      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0-1 | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| MME-Service-Type                          | 1483     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0+   | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0+  | 0   |
| MO-LR                                     | 1485     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0+   | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0+  | 0   |
| MSISDN                                    | 701      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0-1 | 0   |
| Network-Access-Mode                       | 1417     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0-1 | 0   |
| NOR-Flags                                 | 1443     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0-1 | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| Notification-To-UE-User                   | 1478     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0-1 | 0   |
| Number-Of-Requested-Vectors               | 1410     | 10415     | UINT32      | 1      | 0      | 0   | 0-1 | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0   | 0   |
| OMC-Id                                    | 1466     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0-1 | 0   |
| Operator-Determined-Barring               | 1425     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0  | 0   | 0-1 | 0   |
| Origin-Host                               | 264      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1   | 1   | 1    | 1    | 1   | 1  | 1   | 1   | 1   |
| Origin-Realm                              | 296      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1   | 1   | 1    | 1    | 1   | 1  | 1   | 1   | 1   |

| Attribute                                     | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | AIA | AIR | CLA | CLR | DSDA | DSDR | ISDA | ISDR | NA  | NR  | PUAM | PURM | RA  | RR  | ULA | ULR |
|---|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|------|------|------|------|-----|-----|------|------|-----|-----|-----|-----|
| PDN-GW-Identity                               | 6044     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0   | 0   | 0   |
| PDP-Context                                   | 1469     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0+   | 0   | 0   | 0    | 0    | 0   | 0   | 0+  | 0   |
| PLMN-Client                                   | 1482     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0+   | 0   | 0   | 0    | 0    | 0   | 0   | 0+  | 0   |
| Proxy-Info                                    | 284      | 0         | GROUPED     | 1      | 0      | 0+  | 0+  | 0+  | 0+  | 0+   | 0+   | 0+   | 0+   | 0+  | 0+  | 0+   | 0+   | 0+  | 0+  | 0+  | 0+  |
| PUA-Flags                                     | 1442     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 1    | 0    | 0   | 0   | 0   | 0   |
| RAND  | 1447     | 10415     | OCTETSTRING | 1      | 0      | 1   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0   | 0   | 0   |
| RAT-Frequency-Selection-Priority              | 1440     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0   | 0-1 | 0   |
| RAT-Type                                      | 1032     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0   | 0   | 1   |
| Regional-Subscription-Zone-Code               | 1446     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0+   | 0   | 0   | 0    | 0    | 0   | 0   | 0+  | 0   |
| Requested-EUTRAN-Authentication-Info          | 1408     | 10415     | GROUPED     | 1      | 0      | 0   | 1   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0   | 0   | 0   |
| Requested-GERAN-Authentication-Info           | 6012     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0   | 0   | 0   |
| Requested-UTRAN-GERAN-Authentication-Info     | 1409     | 10415     | GROUPED     | 1      | 0      | 0   | 1   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0   | 0   | 0   |
| Result-Code                                   | 268      | 0         | ENUM        | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1  | 0    | 0-1  | 0    | 0-1 | 0   | 0-1  | 0    | 0-1 | 0   | 0-1 | 0   |
| Re-Synchronization-Info                       | 1411     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0   | 0   | 0   |
| Roaming-Restricted-Due-To-Unsupported-Feature | 1461     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0   | 0-1 | 0   |
| Route-Record                                  | 282      | 0         | DIAMIDENT   | 1      | 0      | 0+  | 0+  | 0+  | 0+  | 0+   | 0+   | 0+   | 0+   | 0+  | 0+  | 0+   | 0+   | 0+  | 0+  | 0+  | 0+  |
| Service-Selection                             | 493      | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0-1 | 0    | 0    | 0   | 0   | 0   | 0   |
| ServiceTypeIdentity                           | 1484     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 1    | 0   | 0   | 0    | 0    | 0   | 0   | 1   | 0   |
| Session-Id                                    | 263      | 0         | UTF8STRING  | 1      | 0      | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1   | 1   | 1    | 1    | 1   | 1   | 1   | 1   |
| SGSN-Number                                   | 1489     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0   | 0   | 0-1 |
| Software-Version                              | 1403     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0-1 | 0    | 0    | 0   | 0   | 0   | 0-1 |
| Specific-APN-Info                             | 1472     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0   | 0   | 0   |
| SS-Code                                       | 1478     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0-1  | 0    | 1    | 0   | 0   | 0    | 0    | 0   | 0   | 1   | 0   |
| SS-Status                                     | 1477     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 1    | 0   | 0   | 0    | 0    | 0   | 0   | 1   | 0   |
| STN-SR  | 1433     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0   | 0-1 | 0   |
| Subscriber-Status                             | 1424     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0   | 0-1 | 0   |
| Subscription-Data                             | 1400     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 1    | 0   | 0   | 0    | 0    | 0   | 0   | 0-1 | 0   |
| Supported-Features                            | 628      | 10415     | GROUPED     | 1      | 0      | 0+  | 0+  | 0+  | 0+  | 0+   | 0+   | 0+   | 0+   | 0+  | 0+  | 0+   | 0+   | 0-1 | 0-1 | 0+  | 0+  |
| Teleservice-List                              | 1486     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0   | 0-1 | 0   |
| Terminal-Information                          | 1401     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0-1 | 0    | 0    | 0   | 0   | 0   | 0-1 |
| Trace-Collection-Entity                       | 1452     | 10415     | ADDRESS     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 1    | 0   | 0   | 0    | 0    | 0   | 0   | 1   | 0   |
| Trace-Data                                    | 1458     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0   | 0-1 | 0   |
| Trace-Depth                                   | 1462     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 1    | 0   | 0   | 0    | 0    | 0   | 0   | 1   | 0   |
| Trace-Depth-List                              | 1460     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0   | 0-1 | 0   |
| Trace-Depth-Per-NE-Type                       | 7015     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0+   | 0   | 0   | 0    | 0    | 0   | 0   | 0+  | 0   |
| Trace-Event-List                              | 1465     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 1    | 0   | 0   | 0    | 0    | 0   | 0   | 1   | 0   |
| Trace-Interface-List                          | 1464     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0-1  | 0   | 0   | 0    | 0    | 0   | 0   | 0-1 | 0   |
| Trace-NE-Type-List                            | 1463     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 1    | 0   | 0   | 0    | 0    | 0   | 0   | 1   | 0   |
| Trace-Reference                               | 1459     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0-1  | 0    | 1    | 0   | 0   | 0    | 0    | 0   | 0   | 1   | 0   |
| TS-Code                                       | 1487     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0+   | 0   | 0   | 0    | 0    | 0   | 0   | 0+  | 0   |
| ULA-Flags                                     | 1406     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0   | 1   | 0   |
| ULR-Flags                                     | 1405     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0   | 0   | 1   |
| User-Id                                       | 1444     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0+  | 0   | 0   |
| User-Name                                     | 1        | 0         | UTF8STRING  | 1      | 0      | 0   | 1   | 0   | 1   | 0    | 1    | 0    | 1    | 0   | 1   | 0    | 1    | 0   | 0   | 0   | 1   |
| UTRAN-Vector                                  | 1415     | 10415     | GROUPED     | 1      | 0      | 0+  | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0   | 0   | 0   |
| Vendor-Id                                     | 266      | 0         | UINT32      | 1      | 0      | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1   | 1   | 1    | 1    | 1   | 1   | 1   | 1   |
| Vendor-Specific-Application-Id                | 260      | 0         | GROUPED     | 1      | 0      | 0-1 | 0-1 | 0-1 | 0-1 | 0-1  | 0-1  | 0-1  | 0-1  | 0-1 | 0-1 | 0-1  | 0-1  | 0-1 | 0-1 | 0-1 | 0-1 |
| Visited-PLMN-Id                               | 1407     | 10415     | UTF8STRING  | 1      | 0      | 0   | 1   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0   | 0   | 1   |
| XRES  | 1448     | 10415     | OCTETSTRING | 1      | 0      | 1   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0    | 0   | 0   | 0   | 0   |

## S13 Dictionary 3GPP 29.272

| Attribute            | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | MICA | MICR |
|----------------------|----------|-----------|-------------|--------|--------|------|------|
| 3GPP2-MEID           | 1471     | 10415     | OCTETSTRING | 1      | 0      | 0    | 0-1  |
| Auth-Session-State   | 277      | 0         | ENUM        | 1      | 0      | 1    | 1    |
| Destination-Host     | 293      | 0         | DIAMIDENT   | 1      | 0      | 0    | 0-1  |
| Destination-Realm    | 283      | 0         | DIAMIDENT   | 1      | 0      | 0    | 1    |
| Equipment-Status     | 1445     | 10415     | ENUM        | 1      | 0      | 0-1  | 0    |
| Experimental-Result  | 297      | 0         | GROUPED     | 1      | 0      | 0-1  | 0    |
| Failed-AVP           | 279      | 0         | GROUPED     | 1      | 0      | 0+   | 0    |
| IMEI                 | 1402     | 10415     | UTF8STRING  | 1      | 0      | 0    | 0-1  |
| Origin-Host          | 264      | 0         | DIAMIDENT   | 1      | 0      | 1    | 1    |
| Origin-Realm         | 296      | 0         | DIAMIDENT   | 1      | 0      | 1    | 1    |
| Proxy-Info           | 284      | 0         | GROUPED     | 1      | 0      | 0+   | 0+   |
| Result-Code          | 268      | 0         | ENUM        | 1      | 0      | 0-1  | 0    |
| Route-Record         | 282      | 0         | DIAMIDENT   | 1      | 0      | 0+   | 0+   |
| Session-Id           | 263      | 0         | UTF8STRING  | 1      | 0      | 1    | 1    |
| Software-Version     | 1403     | 10415     | UTF8STRING  | 1      | 0      | 0    | 0-1  |
| Terminal-Information | 1401     | 10415     | GROUPED     | 1      | 0      | 0    | 1    |
| User-Name            | 1        | 0         | UTF8STRING  | 1      | 0      | 0    | 0-1  |

## S6b Dictionary 3GPP 29.273

| Attribute                   | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | ASA | ASR | AAA | AAR | RAA | RAR | STA | STR |
|-----------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| Auth-Application-Id         | 258      | 0         | UINT32      | 1      | 0      | 0   | 1   | 1   | 1   | 0   | 1   | 0   | 1   |
| Auth-Grace-Period           | 276      | 0         | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   |
| Authorization-Lifetime      | 291      | 0         | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   |
| Auth-Request-Type           | 274      | 0         | ENUM        | 1      | 0      | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   |
| Auth-Session-State          | 277      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   |
| Class                       | 25       | 0         | OCTETSTRING | 1      | 0      | 0   | 0+  | 0+  | 0   | 0+  | 0+  | 0+  | 0+  |
| Destination-Host            | 293      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 0   | 0-1 | 0   | 1   | 0   | 0-1 |
| Destination-Realm           | 283      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 0   | 1   | 0   | 1   | 0   | 1   |
| Error-Message               | 281      | 0         | UTF8STRING  | 0      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Error-Reporting-Host        | 294      | 0         | DIAMIDENT   | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Experimental-Result         | 297      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Experimental-Result-Code    | 298      | 0         | ENUM        | 1      | 0      | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| Extended-QoS-Filter-Rule    | 6066     | 0         | UINT32      | 1      | 0      | 0   | 0   | 0+  | 0   | 0   | 0   | 0   | 0   |
| Failed-AVP                  | 279      | 0         | GROUPED     | 1      | 0      | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   |
| Feature-List                | 630      | 10415     | UINT32      | 0      | 0      | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   |
| Feature-List-ID             | 629      | 10415     | UINT32      | 0      | 0      | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   |
| Idle-Timeout                | 28       | 0         | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   |
| MIP6-Agent-Info             | 486      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0+  | 0   | 0   | 0   | 0   |
| MIP6-Feature-Vector         | 124      | 0         | UINT64      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   |
| MIP6-Home-Link-Prefix       | 125      | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| MIP-Home-Agent-Address-IETF | 334      | 0         | ADDRESS     | 1      | 0      | 0   | 0   | 0   | 0+  | 0   | 0   | 0   | 0   |
| MIP-Home-Agent-Host         | 348      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| Origin-Host                 | 264      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Origin-Realm                | 296      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Origin-State-Id             | 278      | 0         | UINT32      | 1      | 0      | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| Proxy-Host                  | 280      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Proxy-Info                  | 284      | 0         | GROUPED     | 1      | 0      | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  |
| Proxy-State                 | 33       | 0         | OCTETSTRING | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| QoS-Capability              | 6063     | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| QoS-Profile-Template        | 6067     | 0         | UINT32      | 1      | 0      | 0   | 0   | 0   | 0+  | 0   | 0   | 0   | 0   |
| QoS-Resources               | 6065     | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Re-Auth-Request-Type        | 285      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0   | 0   | 1   | 0   | 0   |
| Redirect-Host               | 292      | 0         | OCTETSTRING | 1      | 0      | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   |
| Redirect-Host-Usage         | 261      | 0         | ENUM        | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Redirect-Max-Cache-Time     | 262      | 0         | UINT32      | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Reply-Message               | 18       | 0         | UTF8STRING  | 1      | 0      | 0   | 0+  | 0   | 0   | 0   | 0   | 0   | 0   |
| Result-Code                 | 268      | 0         | ENUM        | 1      | 0      | 1   | 0   | 1   | 0   | 1   | 0   | 1   | 0   |
| Route-Record                | 282      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  |
| Service-Selection           | 493      | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| Session-Id                  | 263      | 0         | UTF8STRING  | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Session-Timeout             | 27       | 0         | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |

| Attribute                            | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | ASA | ASR | AAA | AAR | RAA | RAR | STA | STR |
|--------------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| State                                | 24       | 0         | OCTETSTRING | 1      | 0      | 0-1 | 0-1 | 0   | 0   | 0-1 | 0-1 | 0   | 0   |
| Supported-Features                   | 628      | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0+  | 0+  | 0   | 0   | 0   | 0   |
| Termination-Cause                    | 295      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   |
| User-Name                            | 1        | 0         | UTF8STRING  | 1      | 0      | 0   | 0-1 | 0   | 0-1 | 0-1 | 0-1 | 0   | 0-1 |
| Vendor-Id                            | 266      | 0         | UINT32      | 1      | 0      | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   |
| Vendor-Specific-QoS-Profile-Template | 6064     | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0+  | 0   | 0   | 0   | 0   |

## STa Dictionary 3GPP 29.273

| Attribute                     | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | ASA | ASR | AAA | AAR | DEA | DER | RAA | RAR | STA | STR |
|-------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 3GPP2-MEID                    | 1471     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| 3GPP-Charging-Characteristics | 13       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Acct-Interim-Interval         | 85       | 0         | UINT32      | 0      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Allocation-Retention-Priority | 1034     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| AMBR                          | 1435     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| ANID                          | 1504     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| AN-Trusted                    | 1503     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| APN-Configuration             | 1430     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0+  | 0   | 0+  | 0   | 0   | 0   | 0   | 0   |
| APN-OI-Replacement            | 1427     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Auth-Application-Id           | 258      | 0         | UINT32      | 1      | 0      | 0   | 1   | 1   | 1   | 1   | 1   | 0   | 1   | 0   | 1   |
| Auth-Grace-Period             | 276      | 0         | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0-1 | 0-1 | 0   | 0   | 0   | 0   |
| Authorization-Lifetime        | 291      | 0         | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0-1 | 0-1 | 0   | 0   | 0   | 0   |
| Auth-Request-Type             | 274      | 0         | ENUM        | 1      | 0      | 0   | 0   | 1   | 1   | 1   | 1   | 0   | 0   | 0   | 0   |
| Auth-Session-State            | 277      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0-1 | 0-1 | 0   | 0   | 0   | 0   |
| Calling-Station-Id            | 31       | 0         | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| Class                         | 25       | 0         | OCTETSTRING | 1      | 0      | 0   | 0+  | 0+  | 0   | 0+  | 0   | 0+  | 0+  | 0+  | 0+  |
| Context-Identifier            | 1423     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Destination-Host              | 293      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 1   | 0-1 | 1   | 0-1 | 0   | 1   | 0   | 0-1 |
| Destination-Realm             | 283      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 1   | 1   | 1   | 1   | 0   | 1   | 0   | 1   |
| EAP-Master-Session-Key        | 464      | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| EAP-Payload                   | 462      | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   |
| EPS-Subscribed-QoS-Profile    | 1431     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Error-Message                 | 281      | 0         | UTF8STRING  | 0      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Error-Reporting-Host          | 294      | 0         | DIAMIDENT   | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Experimental-Result           | 297      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Experimental-Result-Code      | 298      | 0         | ENUM        | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| Failed-AVP                    | 279      | 0         | GROUPED     | 1      | 0      | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   |
| Feature-List                  | 630      | 10415     | UINT32      | 0      | 0      | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   |
| Feature-List-ID               | 629      | 10415     | UINT32      | 0      | 0      | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   |
| Idle-Timeout                  | 28       | 0         | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| IMEI                          | 1402     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| IP-MMS                        | 6076     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Max-Requested-Bandwidth-DL    | 515      | 10415     | UINT32      | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| Max-Requested-Bandwidth-UL    | 516      | 10415     | UINT32      | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| MIP6-Agent-Info               | 486      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| MIP6-Feature-Vector           | 124      | 0         | UINT64      | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   |
| MIP6-Home-Link-Prefix         | 125      | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| MIP-Home-Agent-Address-IETF   | 334      | 0         | ADDRESS     | 1      | 0      | 0   | 0   | 0+  | 0   | 0+  | 0   | 0   | 0   | 0   | 0   |
| MIP-Home-Agent-Host           | 348      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Mobile-Node-Identifier        | 506      | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Multi-Round-Time-Out          | 272      | 0         | UINT32      | 0      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Origin-Host                   | 264      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Origin-Realm                  | 296      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Origin-State-Id               | 278      | 0         | UINT32      | 1      | 0      | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| PDN-GW-Allocation-Type        | 1438     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |



| Attribute                            | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | ASA | ASR | AAA | AAR | DEA | DER | RAA | RAR | STA | STR |
|--------------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| PDN-Type                             | 1456     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| Proxy-Host                           | 280      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Proxy-Info                           | 284      | 0         | GROUPED     | 1      | 0      | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  |
| Proxy-State                          | 33       | 0         | OCTETSTRING | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| QoS-Capability                       | 6063     | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   |
| QoS-Class-Identifier                 | 1028     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| QoS-Profile-Template                 | 6067     | 0         | UINT32      | 1      | 0      | 0   | 0   | 0   | 0+  | 0   | 0+  | 0   | 0   | 0   | 0   |
| RAT-Type                             | 1032     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   |
| Re-Auth-Request-Type                 | 285      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   |
| Redirect-Host                        | 292      | 0         | OCTETSTRING | 1      | 0      | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   |
| Redirect-Host-Usage                  | 261      | 0         | ENUM        | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Redirect-Max-Cache-Time              | 262      | 0         | UINT32      | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Reply-Message                        | 18       | 0         | UTF8STRING  | 1      | 0      | 0   | 0+  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Result-Code                          | 268      | 0         | ENUM        | 1      | 0      | 1   | 0   | 0-1 | 0   | 0-1 | 0   | 1   | 0   | 1   | 0   |
| Route-Record                         | 282      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  |
| Served-Party-IP-Address              | 848      | 10415     | ADDRESS     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Service-Selection                    | 493      | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 0-1 | 0   | 0   | 0   | 0   |
| Session-Id                           | 263      | 0         | UTF8STRING  | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Session-Timeout                      | 27       | 0         | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Software-Version                     | 1403     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| State                                | 24       | 0         | OCTETSTRING | 1      | 0      | 0-1 | 0-1 | 0-1 | 0   | 0-1 | 0-1 | 0-1 | 0-1 | 0   | 0   |
| Supported-Features                   | 628      | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0+  | 0+  | 0   | 0   | 0   | 0   |
| Terminal-Information                 | 1401     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| Termination-Cause                    | 295      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   |
| User-Name                            | 1        | 0         | UTF8STRING  | 1      | 0      | 0   | 0-1 | 0   | 0-1 | 0-1 | 0-1 | 0   | 0-1 | 0   | 0-1 |
| Vendor-Id                            | 266      | 0         | UINT32      | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 1   | 0   | 0   | 0   | 0   |
| Vendor-Specific-QoS-Profile-Template | 6064     | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0+  | 0   | 0+  | 0   | 0   | 0   | 0   |
| Visited-Network-Identifier           | 600      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   |
| VPLMN-Dynamic-Address-Allowed        | 1432     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |

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| Attribute                             | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | CCA | CCR | RAA | RAR |
|---------------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|
| 3GPP2-BSID                            | 9010     | 5535      | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0   | 0-1 |
| 3GPP-MS-TimeZone                      | 23       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0-1 | 0-1 |
| 3GPP-SGSN-Address                     | 6        | 10415     | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0-1 | 0-1 |
| 3GPP-SGSN-IPv6-Address                | 15       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0-1 | 0-1 |
| 3GPP-SGSN-MCC-MNC                     | 18       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0-1 | 0-1 | 0   |
| 3GPP-User-Location-Info               | 22       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0-1 | 0-1 | 0-1 |
| Access-Network-Charging-Address       | 501      | 10415     | ADDRESS     | 1      | 0      | 0   | 0-1 | 0-1 | 0   |
| Access-Network-Charging-Identifier-Gx | 1022     | 10415     | GROUPED     | 1      | 0      | 0   | 0+  | 0+  | 0   |
| Allocation-Retention-Priority         | 1034     | 10415     | GROUPED     | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| AN-GW-Address                         | 1050     | 10415     | ADDRESS     | 1      | 0      | 0   | 0+  | 0-1 | 0   |
| APN-Aggregate-Max-Bitrate-DL          | 1040     | 10415     | UINT32      | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| APN-Aggregate-Max-Bitrate-UL          | 1041     | 10415     | UINT32      | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| Auth-Application-Id                   | 258      | 0         | UINT32      | 1      | 0      | 1   | 1   | 0   | 1   |
| Bearer-Control-Mode                   | 1023     | 10415     | ENUM        | 1      | 0      | 0-1 | 0   | 0   | 0   |
| Bearer-Identifier                     | 1020     | 10415     | OCTETSTRING | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| Bearer-Operation                      | 1021     | 10415     | ENUM        | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Bearer-Usage                          | 1000     | 10415     | ENUM        | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Called-Station-Id                     | 30       | 0         | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0   | 0   |
| CC-Request-Number                     | 415      | 0         | UINT32      | 1      | 0      | 1   | 1   | 0   | 0   |
| CC-Request-Type                       | 416      | 0         | ENUM        | 1      | 0      | 1   | 1   | 0   | 0   |
| Charging-Information                  | 618      | 10415     | GROUPED     | 1      | 0      | 0-1 | 0   | 0   | 0   |
| Charging-Rule-Base-Name               | 1004     | 10415     | UTF8STRING  | 1      | 0      | 0+  | 0   | 0   | 0+  |
| Charging-Rule-Definition              | 1003     | 10415     | GROUPED     | 1      | 0      | 0+  | 0   | 0   | 0+  |
| Charging-Rule-Install                 | 1001     | 10415     | GROUPED     | 1      | 0      | 0+  | 0   | 0   | 0+  |
| Charging-Rule-Name                    | 1005     | 10415     | OCTETSTRING | 1      | 0      | 0+  | 0   | 0   | 0+  |
| Charging-Rule-Remove                  | 1002     | 10415     | GROUPED     | 1      | 0      | 0+  | 0   | 0   | 0+  |
| Charging-Rule-Report                  | 1018     | 10415     | GROUPED     | 1      | 0      | 0   | 0+  | 0+  | 0   |
| CoA-Information                       | 1039     | 10415     | GROUPED     | 1      | 0      | 0   | 0+  | 0   | 0   |
| Default-EPS-Bearer-QoS                | 1049     | 10415     | GROUPED     | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| Destination-Host                      | 293      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0-1 | 0   | 1   |
| Destination-Realm                     | 283      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 0   | 1   |
| Error-Message                         | 281      | 0         | UTF8STRING  | 0      | 0      | 0-1 | 0   | 0-1 | 0   |
| Error-Reporting-Host                  | 294      | 0         | DIAMIDENT   | 1      | 0      | 0-1 | 0   | 0-1 | 0   |

| Attribute                  | AVP Code | Vendor-Id | AVP Type     | M Flag | P Flag | CCA | CCR | RAA | RAR |
|----------------------------|----------|-----------|--------------|--------|--------|-----|-----|-----|-----|
| Event-Report-Indication    | 1033     | 10415     | GROUPED      | 1      | 0      | 0   | 0-1 | 0   | 0-1 |
| Event-Trigger              | 1006     | 10415     | ENUM         | 1      | 0      | 0+  | 0+  | 0   | 0+  |
| Experimental-Result        | 297      | 0         | GROUPED      | 1      | 0      | 0-1 | 0   | 0-1 | 0   |
| Failed-AVP                 | 279      | 0         | GROUPED      | 1      | 0      | 0+  | 0   | 0+  | 0   |
| Feature-List               | 630      | 10415     | UINT32       | 0      | 0      | 1   | 1   | 1   | 1   |
| Feature-List-ID            | 629      | 10415     | UINT32       | 0      | 0      | 1   | 1   | 1   | 1   |
| Flow-Label                 | 1057     | 10415     | OCTETSTRING  | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Framed-IP-Address          | 8        | 0         | OCTETSTRING  | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Framed-IPv6-Prefix         | 97       | 0         | OCTETSTRING  | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Granted-Service-Unit       | 431      | 0         | GROUPED      | 0      | 0      | 0   | 0   | 0   | 0   |
| Guaranteed-Bitrate-DL      | 1025     | 10415     | UINT32       | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| Guaranteed-Bitrate-UL      | 1026     | 10415     | UINT32       | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| IP-CAN-Type                | 1027     | 10415     | ENUM         | 1      | 0      | 0   | 0-1 | 0-1 | 0   |
| Max-Requested-Bandwidth-DL | 515      | 10415     | UINT32       | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| Max-Requested-Bandwidth-UL | 516      | 10415     | UINT32       | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| Network-Request-Support    | 1024     | 10415     | ENUM         | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Offline                    | 1008     | 10415     | ENUM         | 1      | 0      | 0-1 | 0-1 | 0   | 0   |
| Online                     | 1009     | 10415     | ENUM         | 1      | 0      | 0-1 | 0-1 | 0   | 0   |
| Origin-Host                | 264      | 0         | DIAMIDENT    | 1      | 0      | 1   | 1   | 1   | 1   |
| Origin-Realm               | 296      | 0         | DIAMIDENT    | 1      | 0      | 1   | 1   | 1   | 1   |
| Origin-State-Id            | 278      | 0         | UINT32       | 1      | 0      | 0-1 | 0-1 | 0-1 | 0-1 |
| Packet-Filter-Content      | 1059     | 10415     | IPFILTERRULE | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Packet-Filter-Identifier   | 1060     | 10415     | OCTETSTRING  | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Packet-Filter-Information  | 1061     | 10415     | GROUPED      | 0      | 0      | 0   | 0+  | 0   | 0   |
| Packet-Filter-Operation    | 1062     | 10415     | ENUM         | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Precedence                 | 1010     | 10415     | UINT32       | 1      | 0      | 0   | 0-1 | 0-1 | 0   |
| Proxy-Info                 | 284      | 0         | GROUPED      | 1      | 0      | 0+  | 0+  | 0+  | 0+  |
| QoS-Class-Identifier       | 1028     | 10415     | ENUM         | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| QoS-Information            | 1016     | 10415     | GROUPED      | 1      | 0      | 0+  | 0-1 | 0   | 0+  |
| QoS-Negotiation            | 1029     | 10415     | ENUM         | 1      | 0      | 0   | 0-1 | 0   | 0   |
| QoS-Upgrade                | 1030     | 10415     | ENUM         | 1      | 0      | 0   | 0-1 | 0   | 0   |
| RAI                        | 909      | 10415     | UTF8STRING   | 1      | 0      | 0   | 0-1 | 0-1 | 0-1 |
| RAT-Type                   | 1032     | 10415     | ENUM         | 1      | 0      | 0   | 0-1 | 0-1 | 0-1 |
| Re-Auth-Request-Type       | 285      | 0         | ENUM         | 1      | 0      | 0   | 0   | 0   | 1   |
| Redirect-Host              | 292      | 0         | OCTETSTRING  | 1      | 0      | 0+  | 0   | 0   | 0   |
| Redirect-Host-Usage        | 261      | 0         | ENUM         | 1      | 0      | 0-1 | 0   | 0   | 0   |

| Attribute                        | AVP Code | Vendor-Id | AVP Type     | M Flag | P Flag | CCA | CCR | RAA | RAR |
|----------------------------------|----------|-----------|--------------|--------|--------|-----|-----|-----|-----|
| Redirect-Max-Cache-Time          | 262      | 0         | UINT32       | 1      | 0      | 0-1 | 0   | 0   | 0   |
| Resource-Allocation-Notification | 1063     | 10415     | ENUM         | 1      | 0      | 0-1 | 0   | 0   | 0-1 |
| Result-Code                      | 268      | 0         | ENUM         | 1      | 0      | 0-1 | 0   | 0-1 | 0   |
| Revalidation-Time                | 1042     | 10415     | TIME         | 1      | 0      | 0-1 | 0   | 0   | 0-1 |
| Route-Record                     | 282      | 0         | DIAMIDENT    | 1      | 0      | 0+  | 0+  | 0   | 0+  |
| Rule-Activation-Time             | 1043     | 10415     | TIME         | 1      | 0      | 0-1 | 0   | 0   | 0-1 |
| Rule-Deactivation-Time           | 1044     | 10415     | TIME         | 1      | 0      | 0-1 | 0   | 0   | 0-1 |
| Security-Parameter-Index         | 1056     | 10415     | OCTETSTRING  | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Session-Id                       | 263      | 0         | UTF8STRING   | 1      | 0      | 1   | 1   | 1   | 1   |
| Session-Release-Cause            | 1045     | 10415     | ENUM         | 1      | 0      | 0   | 0   | 0   | 0-1 |
| Subscription-Id                  | 443      | 0         | GROUPED      | 1      | 0      | 0   | 0+  | 0   | 0   |
| Supported-Features               | 628      | 10415     | GROUPED      | 1      | 0      | 0+  | 0+  | 0+  | 0+  |
| Termination-Cause                | 295      | 0         | ENUM         | 1      | 0      | 0   | 0-1 | 0   | 0   |
| TFT-Filter                       | 1012     | 10415     | IPFILTERRULE | 1      | 0      | 0   | 0   | 0-1 | 0   |
| TFT-Packet-Filter-Information    | 1013     | 10415     | GROUPED      | 1      | 0      | 0   | 0+  | 0   | 0   |
| ToS-Traffic-Class                | 1014     | 10415     | OCTETSTRING  | 1      | 0      | 0   | 0-1 | 0-1 | 0   |
| Trace-Data                       | 1458     | 10415     | GROUPED      | 1      | 0      | 0   | 0-1 | 0   | 0-1 |
| Trace-Reference                  | 1459     | 10415     | OCTETSTRING  | 1      | 0      | 0   | 0-1 | 0   | 0-1 |
| Usage-Monitoring-Information     | 1067     | 10415     | GROUPED      | 0      | 0      | 0+  | 0+  | 0   | 0+  |
| Used-Service-Unit                | 446      | 0         | GROUPED      | 0      | 0      | 0   | 0   | 0   | 0   |
| User-Equipment-Info              | 458      | 0         | GROUPED      | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Vendor-Id                        | 266      | 0         | UINT32       | 1      | 0      | 1   | 1   | 1   | 1   |

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| Attribute                     | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | CCA | CCR | RAA | RAR |
|-------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|
| 3GPP2-BSID                    | 9010     | 5535      | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0-1 | 0   |
| 3GPP-MS-TimeZone              | 23       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0   |
| 3GPP-SGSN-Address             | 6        | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0   |
| 3GPP-SGSN-IPv6-Address        | 15       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0   |
| 3GPP-SGSN-MCC-MNC             | 18       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0-1 | 0-1 | 0   |
| 3GPP-User-Location-Info       | 22       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0   |
| Allocation-Retention-Priority | 1034     | 10415     | GROUPED     | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| APN-Aggregate-Max-Bitrate-DL  | 1040     | 10415     | UINT32      | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| APN-Aggregate-Max-Bitrate-UL  | 1041     | 10415     | UINT32      | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| Auth-Application-Id           | 258      | 0         | UINT32      | 1      | 0      | 1   | 1   | 0   | 1   |
| Bearer-Control-Mode           | 1023     | 10415     | ENUM        | 1      | 0      | 0-1 | 0   | 0   | 0   |
| Called-Station-Id             | 30       | 0         | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0   | 0   |
| CC-Request-Number             | 415      | 0         | UINT32      | 1      | 0      | 1   | 1   | 0   | 0   |
| CC-Request-Type               | 416      | 0         | ENUM        | 1      | 0      | 1   | 1   | 0   | 0   |
| Default-EPS-Bearer-QoS        | 1049     | 10415     | GROUPED     | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| Destination-Host              | 293      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0-1 | 0   | 1   |
| Destination-Realm             | 283      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 0   | 1   |
| Error-Message                 | 281      | 0         | UTF8STRING  | 0      | 0      | 0-1 | 0   | 0-1 | 0   |
| Error-Reporting-Host          | 294      | 0         | DIAMIDENT   | 1      | 0      | 0-1 | 0   | 0-1 | 0   |
| Event-Trigger                 | 1006     | 10415     | ENUM        | 1      | 0      | 0+  | 0+  | 0   | 0+  |
| Experimental-Result           | 297      | 0         | GROUPED     | 1      | 0      | 0-1 | 0   | 0-1 | 0   |
| Failed-AVP                    | 279      | 0         | GROUPED     | 1      | 0      | 0+  | 0   | 0+  | 0   |
| Feature-List                  | 630      | 10415     | UINT32      | 0      | 0      | 1   | 1   | 1   | 1   |
| Feature-List-ID               | 629      | 10415     | UINT32      | 0      | 0      | 1   | 1   | 1   | 1   |
| Framed-IP-Address             | 8        | 0         | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Framed-IPv6-Prefix            | 97       | 0         | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Guaranteed-Bitrate-DL         | 1025     | 10415     | UINT32      | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| Guaranteed-Bitrate-UL         | 1026     | 10415     | UINT32      | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| IP-CAN-Type                   | 1027     | 10415     | ENUM        | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Max-Requested-Bandwidth-DL    | 515      | 10415     | UINT32      | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| Max-Requested-Bandwidth-UL    | 516      | 10415     | UINT32      | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| Network-Request-Support       | 1024     | 10415     | ENUM        | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Origin-Host                   | 264      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   |

| Attribute                     | AVP Code | Vendor-Id | AVP Type     | M Flag | P Flag | CCA | CCR | RAA | RAR |
|-------------------------------|----------|-----------|--------------|--------|--------|-----|-----|-----|-----|
| Origin-Realm                  | 296      | 0         | DIAMIDENT    | 1      | 0      | 1   | 1   | 1   | 1   |
| Origin-State-Id               | 278      | 0         | UINT32       | 1      | 0      | 0-1 | 0-1 | 0-1 | 0-1 |
| Precedence                    | 1010     | 10415     | UINT32       | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| Proxy-Info                    | 284      | 0         | GROUPED      | 1      | 0      | 0+  | 0+  | 0+  | 0+  |
| QoS-Class-Identifier          | 1028     | 10415     | ENUM         | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| QoS-Information               | 1016     | 10415     | GROUPED      | 1      | 0      | 0+  | 0-1 | 0   | 0+  |
| QoS-Rule-Install              | 1051     | 10415     | GROUPED      | 1      | 0      | 0+  | 0   | 0   | 0+  |
| QoS-Rule-Remove               | 1052     | 10415     | GROUPED      | 1      | 0      | 0+  | 0   | 0   | 0+  |
| QoS-Rule-Report               | 1055     | 10415     | GROUPED      | 1      | 0      | 0   | 0+  | 0+  | 0   |
| RAI                           | 909      | 10415     | UTF8STRING   | 1      | 0      | 0   | 0   | 0-1 | 0   |
| RAT-Type                      | 1032     | 10415     | ENUM         | 1      | 0      | 0   | 0-1 | 0-1 | 0   |
| Re-Auth-Request-Type          | 285      | 0         | ENUM         | 1      | 0      | 0   | 0   | 0   | 1   |
| Redirect-Host                 | 292      | 0         | OCTETSTRING  | 1      | 0      | 0+  | 0   | 0   | 0   |
| Redirect-Host-Usage           | 261      | 0         | ENUM         | 1      | 0      | 0-1 | 0   | 0   | 0   |
| Redirect-Max-Cache-Time       | 262      | 0         | UINT32       | 1      | 0      | 0-1 | 0   | 0   | 0   |
| Result-Code                   | 268      | 0         | ENUM         | 1      | 0      | 0-1 | 0   | 0-1 | 0   |
| Route-Record                  | 282      | 0         | DIAMIDENT    | 1      | 0      | 0+  | 0+  | 0   | 0+  |
| Session-Id                    | 263      | 0         | UTF8STRING   | 1      | 0      | 1   | 1   | 1   | 1   |
| Session-Linking-Indicator     | 1064     | 10415     | ENUM         | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Session-Release-Cause         | 1045     | 10415     | ENUM         | 1      | 0      | 0   | 0   | 0   | 0-1 |
| Subscription-Id               | 443      | 0         | GROUPED      | 1      | 0      | 0   | 0+  | 0   | 0   |
| Supported-Features            | 628      | 10415     | GROUPED      | 0      | 0      | 0+  | 0+  | 0+  | 0+  |
| TFT-Filter                    | 1012     | 10415     | IPFILTERRULE | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| TFT-Packet-Filter-Information | 1013     | 10415     | GROUPED      | 1      | 0      | 0   | 0+  | 0   | 0   |
| ToS-Traffic-Class             | 1014     | 10415     | OCTETSTRING  | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| User-Equipment-Info           | 458      | 0         | GROUPED      | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Vendor-Id                     | 266      | 0         | UINT32       | 1      | 0      | 1   | 1   | 1   | 1   |

## Gxc Dictionary 3GPP 29.212

| Attribute                             | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | CCA | CCR | RAA | RAR |
|---------------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|
| 3GPP2-BSID                            | 9010     | 5535      | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0-1 | 0   |
| 3GPP-MS-TimeZone                      | 23       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0-1 | 0   |
| 3GPP-SGSN-Address                     | 6        | 10415     | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0-1 | 0   |
| 3GPP-SGSN-IPv6-Address                | 15       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0-1 | 0   |
| 3GPP-SGSN-MCC-MNC                     | 18       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0-1 | 0-1 | 0   |
| 3GPP-User-Location-Info               | 22       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0   |
| Access-Network-Charging-Address       | 501      | 10415     | ADDRESS     | 1      | 0      | 0   | 0-1 | 0-1 | 0   |
| Access-Network-Charging-Identifier-Gx | 1022     | 10415     | GROUPED     | 1      | 0      | 0   | 0+  | 0+  | 0   |
| AN-GW-Address                         | 1050     | 10415     | ADDRESS     | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Auth-Application-Id                   | 258      | 0         | UINT32      | 1      | 0      | 1   | 1   | 0   | 1   |
| Called-Station-Id                     | 30       | 0         | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0   | 0   |
| CC-Request-Number                     | 415      | 0         | UINT32      | 1      | 0      | 1   | 1   | 0   | 0   |
| CC-Request-Type                       | 416      | 0         | ENUM        | 1      | 0      | 1   | 1   | 0   | 0   |
| Charging-Information                  | 618      | 10415     | GROUPED     | 1      | 0      | 0-1 | 0   | 0   | 0   |
| Default-EPS-Bearer-QoS                | 1049     | 10415     | GROUPED     | 1      | 0      | 0-1 | 0-1 | 0   | 0-1 |
| Destination-Host                      | 293      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0-1 | 0   | 1   |
| Destination-Realm                     | 283      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 0   | 1   |
| Error-Message                         | 281      | 0         | UTF8STRING  | 0      | 0      | 0-1 | 0   | 0-1 | 0   |
| Error-Reporting-Host                  | 294      | 0         | DIAMIDENT   | 1      | 0      | 0-1 | 0   | 0-1 | 0   |
| Event-Trigger                         | 1006     | 10415     | ENUM        | 1      | 0      | 0+  | 0+  | 0   | 0+  |
| Experimental-Result                   | 297      | 0         | GROUPED     | 1      | 0      | 0-1 | 0   | 0-1 | 0   |
| Failed-AVP                            | 279      | 0         | GROUPED     | 1      | 0      | 0+  | 0   | 0+  | 0   |
| Framed-IP-Address                     | 8        | 0         | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Framed-IPv6-Prefix                    | 97       | 0         | OCTETSTRING | 1      | 0      | 0   | 0-1 | 0   | 0   |
| IP-CAN-Type                           | 1027     | 10415     | ENUM        | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Origin-Host                           | 264      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   |
| Origin-Realm                          | 296      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   |
| Origin-State-Id                       | 278      | 0         | UINT32      | 1      | 0      | 0-1 | 0-1 | 0-1 | 0-1 |
| Proxy-Info                            | 284      | 0         | GROUPED     | 1      | 0      | 0+  | 0+  | 0+  | 0+  |
| QoS-Information                       | 1016     | 10415     | GROUPED     | 1      | 0      | 0+  | 0-1 | 0   | 0+  |
| QoS-Resource-Request                  | 6106     | 10415     | GROUPED     | 1      | 0      | 0   | 0-1 | 0   | 0   |
| QoS-Rule-Install                      | 1051     | 10415     | GROUPED     | 1      | 0      | 0+  | 0   | 0   | 0+  |
| QoS-Rule-Remove                       | 1052     | 10415     | GROUPED     | 1      | 0      | 0+  | 0   | 0   | 0+  |

| Attribute                     | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | CCA | CCR | RAA | RAR |
|-------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|
| QoS-Rule-Report               | 1055     | 10415     | GROUPED     | 1      | 0      | 0   | 0+  | 0+  | 0   |
| RAI                           | 909      | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0   |
| RAT-Type                      | 1032     | 10415     | ENUM        | 1      | 0      | 0   | 0-1 | 0-1 | 0   |
| Re-Auth-Request-Type          | 285      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 1   |
| Redirect-Host                 | 292      | 0         | OCTETSTRING | 1      | 0      | 0+  | 0   | 0   | 0   |
| Redirect-Host-Usage           | 261      | 0         | ENUM        | 1      | 0      | 0-1 | 0   | 0   | 0   |
| Redirect-Max-Cache-Time       | 262      | 0         | UINT32      | 1      | 0      | 0-1 | 0   | 0   | 0   |
| Result-Code                   | 268      | 0         | ENUM        | 1      | 0      | 0-1 | 0   | 0-1 | 0   |
| Route-Record                  | 282      | 0         | DIAMIDENT   | 1      | 0      | 0+  | 0+  | 0   | 0+  |
| Session-Id                    | 263      | 0         | UTF8STRING  | 1      | 0      | 1   | 1   | 1   | 1   |
| Session-Linking-Indicator     | 1064     | 10415     | ENUM        | 1      | 0      | 0   | 0-1 | 0   | 0   |
| Session-Release-Cause         | 1045     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0-1 |
| Subscription-Id               | 443      | 0         | GROUPED     | 1      | 0      | 0   | 0+  | 0   | 0   |
| Supported-Features            | 628      | 10415     | GROUPED     | 1      | 0      | 0+  | 0+  | 0+  | 0+  |
| Termination-Cause             | 295      | 0         | ENUM        | 1      | 0      | 0   | 0-1 | 0   | 0   |
| TFT-Packet-Filter-Information | 1013     | 10415     | GROUPED     | 1      | 0      | 0   | 0+  | 0   | 0   |
| User-Equipment-Info           | 458      | 0         | GROUPED     | 1      | 0      | 0   | 0-1 | 0   | 0   |



## Standard Rf Dictionary

| Attribute                     | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | AA  | AR  |
|-------------------------------|----------|-----------|-------------|--------|--------|-----|-----|
| 3GPP2-BSID                    | 9010     | 5535      | OCTETSTRING | 1      | 0      | 0   | 0-1 |
| 3GPP-Charging-Characteristics | 13       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0-1 |
| 3GPP-Charging-Id              | 2        | 10415     | OCTETSTRING | 1      | 0      | 0   | 0-1 |
| 3GPP-GGSN-MCC-MNC             | 9        | 10415     | UTF8STRING  | 1      | 0      | 0   | 0-1 |
| 3GPP-IMSI-MCC-MNC             | 8        | 10415     | UTF8STRING  | 1      | 0      | 0   | 0-1 |
| 3GPP-MS-TimeZone              | 23       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0-1 |
| 3GPP-PDP-Type                 | 3        | 10415     | ENUM        | 1      | 0      | 0   | 0-1 |
| 3GPP-RAT-Type                 | 21       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0-1 |
| 3GPP-Selection-Mode           | 12       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0-1 |
| 3GPP-SGSN-MCC-MNC             | 18       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0-1 |
| 3GPP-User-Location-Info       | 22       | 10415     | OCTETSTRING | 1      | 0      | 0   | 0-1 |
| Accounting-Record-Number      | 485      | 0         | UINT32      | 1      | 0      | 1   | 1   |
| Accounting-Record-Type        | 480      | 0         | ENUM        | 1      | 0      | 1   | 1   |
| Acct-Application-Id           | 259      | 0         | UINT32      | 1      | 0      | 0-1 | 0-1 |
| Acct-Interim-Interval         | 85       | 0         | UINT32      | 1      | 0      | 0-1 | 0-1 |
| AF-Correlation-Information    | 1276     | 10415     | GROUPED     | 1      | 0      | 0   | 0   |
| Called-Station-Id             | 30       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0-1 |
| Change-Condition              | 2037     | 10415     | ENUM        | 1      | 0      | 0   | 0-1 |
| Destination-Host              | 293      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0-1 |
| Destination-Realm             | 283      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   |
| Diagnostics                   | 2039     | 10415     | ENUM        | 1      | 0      | 0   | 0-1 |
| Dynamic-Address-Flag          | 2051     | 10415     | ENUM        | 1      | 0      | 0   | 0-1 |
| Error-Reporting-Host          | 294      | 0         | DIAMIDENT   | 1      | 0      | 0-1 | 0   |
| Event-Timestamp               | 55       | 0         | TIME        | 1      | 0      | 0-1 | 0-1 |
| GGSN-Address                  | 847      | 10415     | ADDRESS     | 1      | 0      | 0   | 0-1 |
| IMS-Information               | 876      | 10415     | GROUPED     | 1      | 0      | 0   | 0-1 |
| Node-Functionality            | 862      | 10415     | ENUM        | 1      | 0      | 0   | 1   |
| Node-Id                       | 2064     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0-1 |
| Origin-Host                   | 264      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   |
| Origin-Realm                  | 296      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   |
| Origin-State-Id               | 278      | 0         | UINT32      | 1      | 0      | 0-1 | 0-1 |
| PDP-Address                   | 1227     | 10415     | ADDRESS     | 1      | 0      | 0   | 0+  |
| Proxy-Info                    | 284      | 0         | GROUPED     | 1      | 0      | 0+  | 0+  |

| Attribute              | AVP Code | Vendor-Id | AVP Type   | M Flag | P Flag | AA  | AR  |
|------------------------|----------|-----------|------------|--------|--------|-----|-----|
| PS-Information         | 874      | 10415     | GROUPED    | 1      | 0      | 0   | 0-1 |
| Result-Code            | 268      | 0         | ENUM       | 1      | 0      | 1   | 0   |
| Route-Record           | 282      | 0         | DIAMIDENT  | 1      | 0      | 0+  | 0+  |
| Service-Context-Id     | 461      | 0         | UTF8STRING | 1      | 0      | 0   | 0-1 |
| Service-Data-Container | 2040     | 10415     | GROUPED    | 1      | 0      | 0   | 0+  |
| Service-Information    | 873      | 10415     | GROUPED    | 1      | 0      | 0   | 0-1 |
| Service-Specific-Info  | 1249     | 10415     | GROUPED    | 1      | 0      | 0   | 0   |
| Serving-Node-Type      | 2047     | 10415     | ENUM       | 1      | 0      | 0   | 0-1 |
| Session-Id             | 263      | 0         | UTF8STRING | 1      | 0      | 1   | 1   |
| SGSN-Address           | 1228     | 10415     | ADDRESS    | 1      | 0      | 0   | 0-1 |
| SGW-Change             | 2065     | 10415     | ENUM       | 1      | 0      | 0   | 0-1 |
| Start-Time             | 2041     | 10415     | TIME       | 1      | 0      | 0   | 0-1 |
| Stop-Time              | 2042     | 10415     | TIME       | 1      | 0      | 0   | 0-1 |
| Subscription-Id        | 443      | 0         | GROUPED    | 1      | 0      | 0   | 0+  |
| Traffic-Data-Volumes   | 2046     | 10415     | GROUPED    | 1      | 0      | 0   | 0+  |
| User-Equipment-Info    | 458      | 0         | GROUPED    | 1      | 0      | 0   | 0-1 |
| User-Name              | 1        | 0         | UTF8STRING | 1      | 0      | 0-1 | 0-1 |

## ETSI-E2 Dictionary for CSCF

| Attribute                      | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | UDA | UDR |
|--------------------------------|----------|-----------|-------------|--------|--------|-----|-----|
| Access-Network-Type            | 306      | 0         | GROUPED     | 1      | 0      | 0-1 | 0   |
| AF-Application-Identifier      | 504      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0-1 |
| Auth-Session-State             | 277      | 0         | ENUM        | 1      | 0      | 1   | 1   |
| Destination-Host               | 293      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0-1 |
| Destination-Realm              | 283      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   |
| Experimental-Result            | 297      | 0         | GROUPED     | 1      | 0      | 0-1 | 0   |
| Failed-AVP                     | 279      | 0         | GROUPED     | 1      | 0      | 0+  | 0   |
| Globally-Unique-Address        | 300      | 13019     | GROUPED     | 1      | 0      | 0   | 0-1 |
| Location-Information           | 350      | 13019     | GROUPED     | 1      | 0      | 0-1 | 0   |
| Logical-Access-Id              | 302      | 0         | OCTETSTRING | 1      | 0      | 0-1 | 0   |
| Origin-Host                    | 264      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   |
| Origin-Realm                   | 296      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   |
| Physical-Access-Id             | 313      | 0         | UTF8STRING  | 1      | 0      | 0-1 | 0   |
| Proxy-Info                     | 284      | 0         | GROUPED     | 1      | 0      | 0+  | 0+  |
| RACS-Contact-Point             | 351      | 0         | DIAMIDENT   | 1      | 0      | 0-1 | 0   |
| Requested-Information          | 353      | 13019     | ENUM        | 1      | 0      | 0   | 0-1 |
| Result-Code                    | 268      | 0         | ENUM        | 1      | 0      | 0-1 | 0   |
| Route-Record                   | 282      | 0         | DIAMIDENT   | 1      | 0      | 0+  | 0+  |
| Session-Id                     | 263      | 0         | UTF8STRING  | 1      | 0      | 1   | 1   |
| Terminal-Type                  | 352      | 13019     | OCTETSTRING | 1      | 0      | 0-1 | 0   |
| User-Name                      | 1        | 0         | UTF8STRING  | 1      | 0      | 0-1 | 0-1 |
| Vendor-Specific-Application-Id | 260      | 0         | GROUPED     | 1      | 0      | 1   | 1   |

## SWm Dictionary 3GPP 29.273

| Attribute                     | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | ASA | ASR | AAA | AAR | DEA | DER | RAA | RAR | STA | STR |
|-------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 3GPP-Charging-Characteristics | 13       | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Acct-Interim-Interval         | 85       | 0         | UINT32      | 0      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Allocation-Retention-Priority | 1034     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| AMBR                          | 1435     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| ANID                          | 1504     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| AN-Trusted                    | 1503     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| APN-Configuration             | 1430     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0+  | 0   | 0+  | 0   | 0   | 0   | 0   | 0   |
| APN-OI-Replacement            | 1427     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Auth-Application-Id           | 258      | 0         | UINT32      | 1      | 0      | 0   | 1   | 1   | 1   | 1   | 1   | 0   | 1   | 0   | 1   |
| Auth-Grace-Period             | 276      | 0         | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0-1 | 0-1 | 0   | 0   | 0   | 0   |
| Authorization-Lifetime        | 291      | 0         | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0-1 | 0-1 | 0   | 0   | 0   | 0   |
| Auth-Request-Type             | 274      | 0         | ENUM        | 1      | 0      | 0   | 0   | 1   | 1   | 1   | 1   | 0   | 0   | 0   | 0   |
| Auth-Session-State            | 277      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0-1 | 0-1 | 0-1 | 0   | 0   | 0   | 0   |
| Calling-Station-Id            | 31       | 0         | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| Class                         | 25       | 0         | OCTETSTRING | 1      | 0      | 0   | 0+  | 0+  | 0   | 0+  | 0   | 0+  | 0+  | 0+  | 0+  |
| Context-Identifier            | 1423     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Destination-Host              | 293      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 1   | 0-1 | 1   | 0-1 | 0   | 1   | 0   | 0-1 |
| Destination-Realm             | 283      | 0         | DIAMIDENT   | 1      | 0      | 0   | 1   | 1   | 1   | 1   | 1   | 0   | 1   | 0   | 1   |
| EAP-Master-Session-Key        | 464      | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| EAP-Payload                   | 462      | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   |
| EPS-Subscribed-QoS-Profile    | 1431     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Error-Message                 | 281      | 0         | UTF8STRING  | 0      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Error-Reporting-Host          | 294      | 0         | DIAMIDENT   | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| ESN                           | 6109     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| Experimental-Result           | 297      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Experimental-Result-Code      | 298      | 0         | ENUM        | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| Failed-AVP                    | 279      | 0         | GROUPED     | 1      | 0      | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   |
| Feature-List                  | 630      | 10415     | UINT32      | 0      | 0      | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   |
| Feature-List-ID               | 629      | 10415     | UINT32      | 0      | 0      | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   |
| Idle-Timeout                  | 28       | 0         | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| IMEI                          | 1402     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| IP-MMS                        | 6076     | 10415     | UINT32      | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Max-Requested-Bandwidth-DL    | 515      | 10415     | UINT32      | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| Max-Requested-Bandwidth-UL    | 516      | 10415     | UINT32      | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| MEID                          | 6110     | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| MIP6-Agent-Info               | 486      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| MIP6-Feature-Vector           | 124      | 0         | UINT64      | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0-1 | 0   | 0   | 0   | 0   |
| MIP6-Home-Link-Prefix         | 125      | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| MIP-Home-Agent-Address-IETF   | 334      | 0         | ADDRESS     | 1      | 0      | 0   | 0   | 0+  | 0   | 0+  | 0   | 0   | 0   | 0   | 0   |
| MIP-Home-Agent-Host           | 348      | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Mobile-Node-Identifier        | 89       | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Multi-Round-Time-Out          | 272      | 0         | UINT32      | 0      | 0      | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Origin-Host                   | 264      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Origin-Realm                  | 296      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Origin-State-Id               | 278      | 0         | UINT32      | 1      | 0      | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |

| Attribute                            | AVP Code | Vendor-Id | AVP Type    | M Flag | P Flag | ASA | ASR | AAA | AAR | DEA | DER | RAA | RAR | STA | STR |
|--------------------------------------|----------|-----------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| PDN-GW-Allocation-Type               | 1438     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| PDN-Type                             | 1456     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| Proxy-Host                           | 280      | 0         | DIAMIDENT   | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Proxy-Info                           | 284      | 0         | GROUPED     | 1      | 0      | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  | 0+  |
| Proxy-State                          | 33       | 0         | OCTETSTRING | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| QoS-Capability                       | 6063     | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   |
| QoS-Class-Identifier                 | 1028     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| QoS-Profile-Template                 | 6067     | 0         | UINT32      | 1      | 0      | 0   | 0   | 0   | 0+  | 0   | 0+  | 0   | 0   | 0   | 0   |
| RAT-Type                             | 1032     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   |
| Re-Auth-Request-Type                 | 285      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   |
| Redirect-Host                        | 292      | 0         | OCTETSTRING | 1      | 0      | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   |
| Redirect-Host-Usage                  | 261      | 0         | ENUM        | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Redirect-Max-Cache-Time              | 262      | 0         | UINT32      | 1      | 0      | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   | 0-1 | 0   |
| Reply-Message                        | 18       | 0         | UTF8STRING  | 1      | 0      | 0   | 0+  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Result-Code                          | 268      | 0         | ENUM        | 1      | 0      | 1   | 0   | 0-1 | 0   | 0-1 | 0   | 1   | 0   | 1   | 0   |
| Route-Record                         | 282      | 0         | DIAMIDENT   | 1      | 0      | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  | 0   | 0+  |
| Served-Party-IP-Address              | 848      | 10415     | ADDRESS     | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Service-Selection                    | 493      | 0         | OCTETSTRING | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 0-1 | 0   | 0   | 0   | 0   |
| Session-Id                           | 263      | 0         | UTF8STRING  | 1      | 0      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| Session-Timeout                      | 27       | 0         | UINT32      | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |
| Software-Version                     | 1403     | 10415     | UTF8STRING  | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| State                                | 24       | 0         | OCTETSTRING | 1      | 0      | 0-1 | 0-1 | 0-1 | 0   | 0-1 | 0-1 | 0-1 | 0-1 | 0   | 0   |
| Supported-Features                   | 628      | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0+  | 0+  | 0   | 0   | 0   | 0   |
| Terminal-Information                 | 1401     | 10415     | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0-1 | 0   | 0   | 0   | 0   |
| Termination-Cause                    | 295      | 0         | ENUM        | 1      | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   |
| User-Name                            | 1        | 0         | UTF8STRING  | 1      | 0      | 0   | 0-1 | 0   | 0-1 | 0-1 | 0-1 | 0   | 0-1 | 0   | 0-1 |
| Vendor-Id                            | 266      | 0         | UINT32      | 1      | 0      | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| Vendor-Specific-QoS-Profile-Template | 6064     | 0         | GROUPED     | 1      | 0      | 0   | 0   | 0   | 0+  | 0   | 0+  | 0   | 0   | 0   | 0   |
| Visited-Network-Identifier           | 600      | 10415     | OCTETSTRING | 1      | 0      | 0   | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   |
| VPLMN-Dynamic-Address-Allowed        | 1432     | 10415     | ENUM        | 1      | 0      | 0   | 0   | 0-1 | 0   | 0-1 | 0   | 0   | 0   | 0   | 0   |