ETSI TS 129 230 V8.18.0 (2014-07)



Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE;

> Diameter applications; 3GPP specific codes and identifiers (3GPP TS 29.230 version 8.18.0 Release 8)



Reference RTS/TSGC-0429230v8I0 Keywords GSM,LTE,UMTS

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Contents

Intell	ectual Property Rights	2
Forev	word	2
Moda	al verbs terminology	2
Forev	word	4
1	Scope	5
2	References	5
3 3.1 3.2	Definitions and abbreviations Definitions Abbreviations	6
4 4.1	Application identifiers	
5 5.1	Command codes	
6 6.1	Vendor identifier	
7 7.1	Attribute-Value-Pair codes 3GPP specific AVP codes	
8 8.1 8.1.1 8.1.2 8.1.3 8.1.4	Experimental result codes 3GPP specific result codes Informational Success. Transient Failures Permanent Failures	18 19 19
Anne	ex A (informative): Assignment of the Diameter codes and identifiers in 3GPP	22
A.1	Application identifiers	22
A.2	Command codes	22
A.3	AVP codes	22
A.4	Result codes	22
Anne	ex B (informative): Change history	24
Histo	ry	26

Foreword

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5

1 Scope

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

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

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

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

[17]	3GPP TS 29.211: "Rx Interface and Rx/Gx signalling flows".
[18]	3GPP TS 29.214: "Policy and Charging Control over Rx reference point".
[19]	3GPP TS 29.212: "Policy and Charging Control over Gx reference point".
[20]	3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces".
[21]	3GPP TS 29.272: "MME and SGSN Related Interfaces Based on Diameter Protocol".
[22]	3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point".
[23]	IETF RFC 5516: "Diameter Command Code Registration for Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)".

3 Definitions and abbreviations

3.1 Definitions

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

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

3.2 Abbreviations

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

AVP Attribute-Value-Pair CR Change Request

IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

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

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

4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

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

5 Command codes

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

5.1 Command codes allocated for 3GPP

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

Table 5.1/1: Command codes allocated for 3GPP

Command code	Command name	Abbreviation	Specified in 3GPP TS
300	User-Authorization-Request/-Answer	UAR/UAA	
301	Server-Assignment-Request/-Answer	SAR/SAA	
302	Location-Info-Request/-Answer	LIR/LIA	
303	Multimedia-Auth-Request/-Answer	MAR/MAA	29.229 [2]
304	Registration-Termination-Request/-	RTR/RTA	
	Answer		
305	Push-Profile-Request/-Answer	PPR/PPA	
306	User-Data-Request/-Answer	UDR/UDA	
307	Profile-Update-Request/-Answer	PUR/PUA	20, 220, [4]
308	Subscribe-Notifications-Request/-Answer	SNR/SNA	29.329 [4]
309	Push-Notification-Request/-Answer	PNR/PNA	
310	Boostrapping-Info-Request/Answer	BIR/BIA	29.109 [7]
311	Message-Process-Request/Answer	MPR/MPA	29.140 [16]
312	GBAPush-Info-Request/Answer	GPR/GPI	29.109 [7]

Editors note: The following command codes have been allocated to 3GPP, but they have not been used yet.

Table 5.1/2: Command codes allocated for 3GPP

313		

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

Table 5.1/3: SAE related Command codes allocated for 3GPP

316	Update-Location-Request/Answer	ULR/ULA	
317	Cancel-Location-Request/Answer	CLR/CLA	
318	Authentication- Information -	AIR/AIA	
	Request/Answer		
319	Insert Subscriber Data-Request/Answer	IDR/IDA	20 272 [24]
320	Delete-Subscriber-Data-Request/Answer	DSR/DSA	29.272 [21]
321	Purge-UE-Request/Answer	PUR/PUA	
322	Reset-Request/Answer	RSR/RSA	
323	Notify-Request/Answer	NOR/NOA	
324	ME-Identity-Check-Request/Answer	ECR/ECA	

6 Vendor identifier

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

6.1 3GPP"s vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

100 3GPP-WLAN-APN-Id	AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
102 3GPP-WLAN-CoS-Filter-Support	100	3GPP-WLAN-APN-Id	OctetString	
102 30P-PMLAN-0oS-Fitter-Support	101	3GPP-WLAN-QoS-Filter-Rule		29.234 [6]
Attributes (See Ts 29.061 [13] and Ts 29.234 [6]]
Note: The AVP codes from 256 to 299 are reserved for future use.	Note:	The AVP codes from 1 to 255 are reserved for backwards compatib	oility with 3GPP RADIUS Ve	ndor Specific
Authentication-Method	Attribu	ites (See TS 29.061 [13] and TS 29.234 [6])		·
301	Note:	The AVP codes from 256 to 299 are reserved for future use.		
303 WLAN-User-Data Grouped				
303 MLAN-User-Data Grouped				
1904 Charging-Data Grouped			OctetString	
305 WLAN-Access				
306 MLAN- 3GPP-IP-Access				
307 APN-Authorized 308 APN-Id 308 APN-Id 309 APN-Barring-Type Enumerated 309 APN-Barring-Type Enumerated 310 WLAN-Direct-IP-Access Enumerated 311 Session-Request-Type Enumerated 312 Routing-Policy IPFilterRule 313 Max-Requested-Bandwidth OctetString 314 Charging-Characteristics Integer 315 Charging-Characteristics Integer 316 Charging-Characteristics Integer 317 Charging-Characteristics Integer 318 Genorally-OCS-Charging-Function-Name DiameterIdentity 318 GPP-AA-Server-Name DiameterIdentity 318 GPP-AA-Server-Name DiameterIdentity 319 Maximum-Number-Accesses Unsigned32 Uns			Enumerated	
309 APN-Barring-Type				
300 APN-Barring-Type			Grouped	
310 WLAN-Direct-IP-Access				
311 Session-Request-Type			Enumerated	29 234 [6]
313 Max-Requested-Bandwidth			Enumerated	20.201[0]
313 Max-Requested-Bandwidth				
314 Charging-Characteristics				
315 Charging-Nodes			OctetString	
316 Primary-OCS-Charging-Function-Name DiameterIdentity 317 Secondary-OCS-Charging-Function-Name DiameterIdentity 318 3GPP-AAA-Server-Name DiameterIdentity 319 Maximum-Number-Accesses Unsigned32 Note: The AVP codes from 320 to 399 are reserved for TS 29.234 400 GBA-User-SecSestitings OctedString 401 Transaction-Identifier OctedString 402 NAF-Hostname OctedString 403 GAA-Service-Identifier OctedString 404 Key-ExpiryTime Time 405 ME-Key-Material OctedString 406 UICC-Key-Material OctedString 407 GBA_U-Awareness-Indicator Enumerated 408 BootstrapInfoCreationTime Time 409 GUSS-Timestamp Time 409 GUSS-Timestamp Time 410 GBA-Type Enumerated 411 UE-Id OctedString 412 UE-Id-Type Enumerated 413 UICC-App-Label OctedString 414 UICC-ME Enumerated 415 Requested-Key-Lifetime Time 416 Private-Identify-Request Enumerated 417 GBA-Push-Info OctedString 418 NAF-SA-Identifier OctedString 419 NAF-SA-Identifier OctedString 410 Access-Network-Charging-Address Address 500 Abort-Cause Address Address 501 Access-Network-Charging-Identifier OctetString 503 Access-Network-Charging-Identifier OctetString 504 AF-Application-Identifier OctetString 505 AF-Charging-Identifier OctetString 506 Authorization-Token OctetString 507 Flow-Description IPFilterRule 508 Flow-Grouping Grouped 509 Flow-Number Unsigned32				
317 Secondary-OCS-Charging-Function-Name DiameterIdentity				
318 3GPP-AAA-Server-Name				
Note: The AVP codes from 320 to 399 are reserved for TS 29.234				
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416Private-Identity-RequestEnumerated417GBA-Push-InfoOctectString418NAF-SA-IdentifierOctectStringNote: The AVP codes from 419 to 499 are reserved for TS 29.109Enumerated500Abort-CauseEnumerated501Access-Network-Charging-AddressAddress502Access-Network-Charging-IdentifierGrouped503Access-Network-Charging-IdentifierOctetString504AF-Application-IdentifierOctetString505AF-Charging-IdentifierOctetString29.209 [8],506Authorization-TokenOctetString29.211 [17],506Authorization-TokenOctetString29.214 [18]507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32	414	UICC-ME	Enumerated	1
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418NAF-SA-IdentifierOctectStringNote: The AVP codes from 419 to 499 are reserved for TS 29.109500Abort-CauseEnumerated501Access-Network-Charging-AddressAddress502Access-Network-Charging-IdentifierGrouped503Access-Network-Charging-Identifier-ValueOctetString504AF-Application-IdentifierOctetString505AF-Charging-IdentifierOctetString506Authorization-TokenOctetString507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32				-
Note: The AVP codes from 419 to 499 are reserved for TS 29.109500Abort-CauseEnumerated501Access-Network-Charging-AddressAddress502Access-Network-Charging-IdentifierGrouped503Access-Network-Charging-Identifier-ValueOctetString504AF-Application-IdentifierOctetString29.209 [8],505AF-Charging-IdentifierOctetString29.211 [17],506Authorization-TokenOctetString29.214 [18]507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32				1
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502Access-Network-Charging-IdentifierGrouped503Access-Network-Charging-Identifier-ValueOctetString504AF-Application-IdentifierOctetString505AF-Charging-IdentifierOctetString506Authorization-TokenOctetString507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32				1
503Access-Network-Charging-Identifier-ValueOctetString504AF-Application-IdentifierOctetString505AF-Charging-IdentifierOctetString506Authorization-TokenOctetString507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32				1
504AF-Application-IdentifierOctetString29.209 [8],505AF-Charging-IdentifierOctetString29.211 [17],506Authorization-TokenOctetString29.214 [18]507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32				1
505AF-Charging-IdentifierOctetString29.211 [17],506Authorization-TokenOctetString29.214 [18]507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32				29.209 [8].
506Authorization-TokenOctetString29.214 [18]507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32				
507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32				29.214 [18]
508Flow-GroupingGrouped509Flow-NumberUnsigned32				1 ' 1
509 Flow-Number Unsigned32				1
				1
			Grouped	1

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511	Flow-Status	Enumerated	
512	Flow-Usage	Enumerated	
513	Specific-Action	Enumerated	
	Max-Requested-Bandwidth	Unsigned32	
	Max-Requested-Bandwidth-DL	Unsigned32	
	Max-Requested-Bandwidth-UL	Unsigned32	
	Media-Component-Description	Grouped	
518	Media-Component-Number	Unsigned32	
519	Media-Sub-Component AVP	Grouped	
	Media-Type	Enumerated	
		Unsigned32	
	RR-Bandwidth	Ŭ	
	RS-Bandwidth	Unsigned32	
523	SIP-Forking-Indication	Enumerated	
524	Codec-Data	OctetString	
	Service-URN	OctetString	
	Acceptable-Service-Info	Grouped	
	Service-Info-Status	Enumerated	
	The AVP codes from 528 to 599 are reserved for TS 29.209, TS 29.2		
600	Visited-Network-Identifier	OctetString	
601	Public-Identity	UTF8String	
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
606	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	
	SIP-Authorization	OctetString	
611	SIP-Authentication-Context	OctetString	
612	SIP-Auth-Data-Item	Grouped	
	SIP-Item-Number	Unsigned32	
		Š	
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
617	Reason-Info	UTF8String	
618	Charging-Information	Grouped	
610	Primary-Event-Charging-Function-Name	DiameterURI	
	Secondary-Event-Charging-Function-Name	DiameterURI	
	Primary-Charging-Collection-Function-Name	DiameterURI	
622	Secondary-Charging-Collection-Function-Name	DiameterURI	
623	User-Authorization-Type	Enumerated	29.229 [2]
	User-Data-Already-Available	Enumerated	- t=1
	Confidentiality-Key		
		OctetString	
	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
628	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
		Ŭ	
	Supported-Applications	Grouped	
	Associated-Identities	Grouped	
633	Originating-Request	Enumerated	
634	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
639	SCSCF-Restoration-Info	Grouped	
	Path	OctetString	
	Contact	OctetString	
	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
645	To-SIP-Header	OctetString	
	Record-Route	OctetString	
J 10	1	2 3.0.0	

0.47	A 14 15 14 111 22		
	Associated-Registered-Identities	Grouped	
	Multiple-Registration-Indication	Enumerated	
	Restoration-Info	Grouped	
	Session-Priority	Enumerated	
651	Identity-with-Emergency-Registration	Grouped	
	The AVP codes from 652 to 699 are reserved for TS 29.229.	<u>, </u>	
	User-Identity User-Identity	Grouped	
701	MSISDN	OctetString	
	User-Data	OctetString	
703	Data-Reference	Enumerated	
704	Service-Indication	OctetString	
705	Subs-Req-Type	Enumerated	
706	Requested-Domain	Enumerated	29.329 [4]
	Current-Location	Enumerated	• •
	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	
	One-Time-Notification	Enumerated	
	The AVP codes from 713 to 799 are reserved for TS 29.329.	Enumerated	
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
	Event-Type	Grouped	
	SIP-Method	UTF8String	
	Event	UTF8String	
	Content-Type	UTF8String	
	Content-Type Content-Length	Unsigned32	
	Content-Disposition	UTF8String	
	Role-of-Node	Enumerated	
	User-Session-Id	UTF8String	
	Calling-Party-Address	UTF8String	
	Called-Party-Address	UTF8String	
	Time-Stamps	Grouped	
	SIP-Request-Timestamp	Time	
	SIP-Response-Timestamp	Time	
	Application-Server		
	Application-server Application-provided-called-party-address	UTF8String UTF8String	
	Inter-Operator-Identifier	Grouped	
	Originating-IOI Terminating-IOI	UTF8String UTF8String	
	IMS-Charging-Identifier		
	SDP-Session-Description	UTF8String	
		UTF8String	
	SDP-Media-Component	Grouped	
	SDP-Media-Name	UTF8String	29.061 [13]
	SDP-Media-Description	UTF8String	
	CG-Address	Address	
	GGSN-Address	Address	
	Served-Party-IP-Address	Address	
	Authorized-QoS Application Server Information	UTF8String Crauped	
	Application-Server-Information	Grouped	
	Trunk-Group-Id	Grouped	
	Incoming-Trunk-Group-Id	UTF8String	
	Outgoing-Trunk-Group-Id	UTF8String	
	Bearer-Service	OctetString	
	Service-Id	UTF8String	
	Associated-URI	UTF8String	
	Charged-Party	UTF8String	
	PoC-Controlling-Address	UTF8String	
	PoC-Group-Name	UTF8String	
	Cause	Grouped	
	Cause-Code	Integer32	
	Node-Functionality	Enumerated	
	Service-Specific-Data	UTF8String	
	Originator DO Francisco De Constituto de Co	Enumerated	
	PS-Furnish-Charging-Information	Grouped	
866	PS-Free-Format-Data	OctetString	

007 D0 A		
867 PS-Append-Free-Format-Data	Enumerated	
868 Time-Quota-Threshold	Unsigned32	
869 Volume-Quota-Threshold	Unsigned32	
870 Trigger-Type	Enumerated	
871 Quota-Holding-Time	Unsigned32	
872 Reporting-Reason 873 Service-Information	Enumerated Grouped	
874 PS-Information	Grouped	
875 WLAN-Information	Grouped	
876 IMS-Information	Grouped	
877 MMS-Information	Grouped	
878 LCS-Information	Grouped	
879 PoC-Information	Grouped	
880 MBMS-Information	Grouped	
881 Quota-Consumption-Time	Unsigned32	
882 Media-Initiator-Flag	Enumerated	
883 PoC-Server-Role	Enumerated	
884 PoC-Session-Type	Enumerated	
885 Number-Of-Participants	Unsigned32	
886 Originator-Address	Grouped	
887 Participants-Involved	UTF8String	
888 Expires	Unsigned32	
889 Message-Body	Grouped	
890 WAG-Address	Address	
891 WAG-PLMN-Id	OctetString	
892 WLAN-Radio-Container	Grouped	
893 WLAN-Technology	Unsigned32	
894 WLAN-UE-Local-IPAddress	Address	
895 PDG-Address	Address	
896 PDG-Charging-Id	Unsigned32	
897 Address-Data	UTF8String	
898 Address-Domain	Grouped	
899 Address-Type	Enumerated	
900 TMGI	OctectString	
901 Required-MBMS-Bearer-Capabilities	UTF8String	
902 MBMS-StartStop-Indication 903 MBMS-Service-Area	Enumerated Octoor String	
904 MBMS-Session-Duration	OctectString Unsigned32	
905 Alternative-APN	UTF8String	
906 MBMS-Service-Type	Enumerated	
907 MBMS-2G-3G-Indicator	Enumerated	
908 MBMS-Session-Identity	OctetString	
909 RAI	UTF8String	
910 Additional-MBMS-Trace-Info	OctetString	
911 MBMS-Time-To-Data-Transfer	Unsigned32	
912 MBMS-Session-Identity-Repetition-Number	Unsigned32	
913 MBMS-Required-QoS	UTF8String	
914 MBMS-Counting-Information	Enumerated	
915 MBMS-User-Data-Mode-Indication	Enumerated	
916 MBMS-GGSN-Address	UTF8String	
917 MBMS-GGSN-IPv6-Address	UTF8String	
918 MBMS-BMSC-SSM-IP-Address	UTF8String	
919 MBMS-BMSC-SSM-IPv6-Address	UTF8String UTF8String	
920 MBMS-Flow-Identifier	OctetString	
921 CN-IP-Multicast-Distribution	Enumerated	
922 MBMS-HC-Indicator	Enumerated	
Note: The AVP codes from 923 to 999 are reserved for TS 29.061		
1000 Bearer-Usage	Enumerated	
1001 Charging-Rule-Install	Grouped	
1002 Charging-Rule-Remove	Grouped	
1003 Charging-Rule-Definition	Grouped 29.212 [19	1
1004 Charging-Rule-Base-Name	UTFOSHING	
1005 Charging-Rule-Name	OctetString	
1006 Event-Trigger	Enumerated	
1007 Metering-Method	Enumerated	

1000 000		
1008 Offline	Enumerated	
1009 Online	Enumerated	
1010 Precedence	Unsigned32	
1011 Reporting-Level 1012 TFT-Filter	Enumerated IPFilterRule	
1012 TFT-Filler 1013 TFT-Packet-Filter-Information	Grouped	
1013 TFT-Packet-Filter-information	OctetString	
1014 103-11aint-Glass	Grouped	
I018 Charging-Rule-Report I019 PCC-Rule-Status	Grouped Enumerated	
1019 PCC-Rule-Status 1020 Bearer-Identifier	OctetString	
1020 Bearer-Quertimer 1021 Bearer-Operation	Enumerated	
1022 Access-Network-Charging-Identifier-Gx		
1022 Access-Network-Charging-Identifier-Gx 1023 Bearer-Control-Mode	Grouped Enumerated	
1024 Network-Request-Support	Enumerated	
1025 Guaranteed-Bitrate-DL	Unsigned32	
1025 Guaranteed-Bitrate-UL		
	Unsigned32 Enumerated	
1027 IP-CAN-Type 1028 QoS-Class-Identifier		
1028 QoS-Class-identifier 1029 QoS-Negotiation	Enumerated	
	Enumerated	
1030 QoS-Upgrade	Enumerated	
1031 Rule-Failure-Code	Enumerated	
1032 RAT-Type	Enumerated	
1033 Event-Report-Indication	Grouped	
034 Allocation-Retention-Priority	Grouped	
1035 CoA-IP-Address	Address	
1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length	IPFilterRule	
	Unsigned32	
1038 Tunnel-Information	Grouped	
1039 CoA-Information	Grouped	
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32	
1041 APN-Aggregate-Max-Bitrate-UL 1042 Revalidation-Time	Unsigned32 Time	
1042 Revalidation-Time 1043 Rule-Activation-Time	Time	
1044 Rule-DeActivation-Time	Time	
1044 Ruie-Deactivation-Time 1045 Session-Release-Cause	Enumerated	
1045 Session-Release-Cause 1046 Priority-Level	Unsigned32	
1046 Priority-Level 1047 Pre-emption-Capability	Enumerated	
1047 [Fre-emplion-Gapability	i chumerated i	
048 Pre-emption-Vulnerability	Enumerated	
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS	Enumerated Grouped	
1048 Pre-emption-Vulnerability1049 Default-EPS-Bearer-QoS1050 AN-GW-Address	Enumerated Grouped Address	
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS 1050 AN-GW-Address 1051 QoS-Rule-Install	Enumerated Grouped Address Grouped	
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS 1050 AN-GW-Address 1051 QoS-Rule-Install 1052 QoS-Rule-Remove	Enumerated Grouped Address Grouped Grouped	
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS 1050 AN-GW-Address 1051 QoS-Rule-Install 1052 QoS-Rule-Remove 1053 QoS-Rule-Definition	Enumerated Grouped Address Grouped Grouped Grouped	
048Pre-emption-Vulnerability049Default-EPS-Bearer-QoS050AN-GW-Address051QoS-Rule-Install052QoS-Rule-Remove053QoS-Rule-Definition054QoS-Rule-Name	Enumerated Grouped Address Grouped Grouped Grouped OctetString	
048Pre-emption-Vulnerability049Default-EPS-Bearer-QoS050AN-GW-Address051QoS-Rule-Install052QoS-Rule-Remove053QoS-Rule-Definition054QoS-Rule-Name055QoS-Rule-Report	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped	
048Pre-emption-Vulnerability049Default-EPS-Bearer-QoS050AN-GW-Address051QoS-Rule-Install052QoS-Rule-Remove053QoS-Rule-Definition054QoS-Rule-Name055QoS-Rule-Report056Security-Parameter-Index	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString	
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS 1050 AN-GW-Address 1051 QoS-Rule-Install 1052 QoS-Rule-Remove 1053 QoS-Rule-Definition 1054 QoS-Rule-Name 1055 QoS-Rule-Report 1056 Security-Parameter-Index 1057 Flow-Label 1057 Flow-Label 1058 Security-Parameter-Index 1057 Flow-Label 1058 Security-Parameter-Index 1058 Security-Parameter-Index 1059 Security-Parameter-Index	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString	
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS 1050 AN-GW-Address 1051 QoS-Rule-Install 1052 QoS-Rule-Remove 1053 QoS-Rule-Definition 1054 QoS-Rule-Name 1055 QoS-Rule-Report 1056 Security-Parameter-Index 1057 Flow-Label 1058 Flow-Information	Enumerated Grouped Address Grouped Grouped Grouped OctetString OctetString OctetString Grouped	
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS 1050 AN-GW-Address 1051 QoS-Rule-Install 1052 QoS-Rule-Remove 1053 QoS-Rule-Definition 1054 QoS-Rule-Name 1055 QoS-Rule-Report 1056 Security-Parameter-Index 1057 Flow-Label 1058 Flow-Information 1059 Packet-Filter-Content	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped IPFilterRule	
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS 1050 AN-GW-Address 1051 QoS-Rule-Install 1052 QoS-Rule-Remove 1053 QoS-Rule-Definition 1054 QoS-Rule-Name 1055 QoS-Rule-Report 1056 Security-Parameter-Index 1057 Flow-Label 1058 Flow-Information 1059 Packet-Filter-Content 1060 Packet-Filter-Identifier	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped IPFilterRule OctetString	
048 Pre-emption-Vulnerability 049 Default-EPS-Bearer-QoS 050 AN-GW-Address 051 QoS-Rule-Install 052 QoS-Rule-Remove 053 QoS-Rule-Definition 054 QoS-Rule-Name 055 QoS-Rule-Report 056 Security-Parameter-Index 057 Flow-Label 058 Flow-Information 059 Packet-Filter-Content 060 Packet-Filter-Identifier 061 Packet-Filter-Information	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped IPFilterRule OctetString Grouped	
048Pre-emption-Vulnerability049Default-EPS-Bearer-QoS050AN-GW-Address051QoS-Rule-Install052QoS-Rule-Remove053QoS-Rule-Definition054QoS-Rule-Name055QoS-Rule-Report056Security-Parameter-Index057Flow-Label058Flow-Information059Packet-Filter-Content060Packet-Filter-Information061Packet-Filter-Information062Packet-Filter-Operation	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped IPFilterRule OctetString Grouped	
048Pre-emption-Vulnerability049Default-EPS-Bearer-QoS050AN-GW-Address051QoS-Rule-Install052QoS-Rule-Remove053QoS-Rule-Definition054QoS-Rule-Name055QoS-Rule-Report056Security-Parameter-Index057Flow-Label058Flow-Information059Packet-Filter-Content060Packet-Filter-Identifier061Packet-Filter-Information062Packet-Filter-Operation063Resource-Allocation-Notification	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated	
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS 1050 AN-GW-Address 1051 QoS-Rule-Install 1052 QoS-Rule-Remove 1053 QoS-Rule-Definition 1054 QoS-Rule-Name 1055 QoS-Rule-Report 1056 Security-Parameter-Index 1057 Flow-Label 1058 Flow-Information 1059 Packet-Filter-Content 1060 Packet-Filter-Information 1061 Packet-Filter-Information 1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification 1064 Session-Linking-Indicator 1065 Packet-Filter-Information 1066 Session-Linking-Indicator 1066 Packet-Filter-Operation 1066 Session-Linking-Indicator 1067 Packet-Filter-Operation 1068 Session-Linking-Indicator 1068	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped IPFilterRule OctetString Grouped	
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS 1050 AN-GW-Address 1051 QoS-Rule-Install 1052 QoS-Rule-Remove 1053 QoS-Rule-Definition 1054 QoS-Rule-Name 1055 QoS-Rule-Report 1056 Security-Parameter-Index 1057 Flow-Label 1058 Flow-Information 1059 Packet-Filter-Content 1060 Packet-Filter-Information 1061 Packet-Filter-Operation 1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification 1064 Session-Linking-Indicator 1065 The AVP codes from 1065 to 1099 are reserved for TS 29.212	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated	
048 Pre-emption-Vulnerability 049 Default-EPS-Bearer-QoS 050 AN-GW-Address 051 QoS-Rule-Install 052 QoS-Rule-Remove 053 QoS-Rule-Definition 054 QoS-Rule-Name 055 QoS-Rule-Report 056 Security-Parameter-Index 057 Flow-Label 058 Flow-Information 059 Packet-Filter-Content 060 Packet-Filter-Identifier 061 Packet-Filter-Information 062 Packet-Filter-Operation 063 Resource-Allocation-Notification 064 Session-Linking-Indicator Iote: The AVP codes from 1065 to 1099 are reserved for TS 29.212	Enumerated Grouped Address Grouped Grouped Grouped OctetString OctetString OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated Enumerated Grouped	
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS 1050 AN-GW-Address 1051 QoS-Rule-Install 1052 QoS-Rule-Remove 1053 QoS-Rule-Definition 1054 QoS-Rule-Name 1055 QoS-Rule-Name 1056 Security-Parameter-Index 1056 Security-Parameter-Index 1057 Flow-Label 1058 Flow-Information 1059 Packet-Filter-Content 1060 Packet-Filter-Information 1061 Packet-Filter-Information 1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification 1064 Session-Linking-Indicator 1065 Served-User-Identity 1070 VASP-ID 1070	Enumerated Grouped Address Grouped Grouped Grouped OctetString OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated Enumerated UTF8String	
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS 1050 AN-GW-Address 1051 QoS-Rule-Install 1052 QoS-Rule-Remove 1053 QoS-Rule-Definition 1054 QoS-Rule-Name 1055 QoS-Rule-Report 1056 Security-Parameter-Index 1057 Flow-Label 1058 Flow-Information 1059 Packet-Filter-Content 1060 Packet-Filter-Identifier 1061 Packet-Filter-Information 1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification 1064 Session-Linking-Indicator 1065 Note: The AVP codes from 1065 to 1099 are reserved for TS 29.212 1100 Served-User-Identity 1101 VASP-ID	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated Enumerated UTF8String UTF8String	
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS 1050 AN-GW-Address 1051 QoS-Rule-Install 1052 QoS-Rule-Remove 1053 QoS-Rule-Definition 1054 QoS-Rule-Name 1055 QoS-Rule-Report 1056 Security-Parameter-Index 1057 Flow-Label 1058 Flow-Information 1059 Packet-Filter-Content 1060 Packet-Filter-Identifier 1061 Packet-Filter-Uperation 1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification 1064 Session-Linking-Indicator 1065 Note: The AVP codes from 1065 to 1099 are reserved for TS 29.212 1100 Served-User-Identity 1101 VASP-ID 1102 VAS-ID 1103 Trigger-Event	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated Enumerated UTF8String UTF8String Enumerated	20 140 146
Pre-emption-Vulnerability Default-EPS-Bearer-QoS Default-EPS-Bearer-DoS Default-EPS-Bearer-	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated Enumerated UTF8String UTF8String Enumerated UTF8String	29.140 [16
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS 1050 AN-GW-Address 1051 QoS-Rule-Install 1052 QoS-Rule-Remove 1053 QoS-Rule-Definition 1054 QoS-Rule-Name 1055 QoS-Rule-Report 1056 Security-Parameter-Index 1057 Flow-Label 1058 Flow-Information 1059 Packet-Filter-Content 1060 Packet-Filter-Information 1061 Packet-Filter-Information 1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification 1064 Session-Linking-Indicator Note: The AVP codes from 1065 to 1099 are reserved for TS 29.212 1100 Served-User-Identity 1101 VASP-ID 1102 VAS-ID 1103 Trigger-Event 1104 Sender-Address 1105 Initial-Recipient-Address	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated Enumerated UTF8String UTF8String Enumerated UTF8String Grouped	29.140 [16
Pre-emption-Vulnerability Default-EPS-Bearer-QoS Default-EPS-Bearer-QoS Default-EPS-Bearer-QoS Default-EPS-Bearer-QoS Default-EPS-Bearer-QoS Default-EPS-Bearer-QoS Default-EPS-Bearer-QoS Default-Eps-Bearer-QoS Default-Install Default-Eps-Bemove Default-Remove Default-Eps-Bemove	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated Enumerated UTF8String UTF8String Grouped UTF8String Grouped Grouped Grouped	29.140 [16
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS 1050 AN-GW-Address 1051 QoS-Rule-Install 1052 QoS-Rule-Remove 1053 QoS-Rule-Definition 1054 QoS-Rule-Name 1055 QoS-Rule-Report 1056 Security-Parameter-Index 1057 Flow-Label 1058 Flow-Information 1059 Packet-Filter-Content 1060 Packet-Filter-Identifier 1061 Packet-Filter-Information 1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification 1064 Session-Linking-Indicator 1065 Note: The AVP codes from 1065 to 1099 are reserved for TS 29.212 1100 Served-User-Identity 1101 VASP-ID 1102 VAS-ID 1103 Trigger-Event 1104 Sender-Address 1105 Result-Recipient-Address 1106 Result-Recipient-Address 1107 Sequence-Number 1108 Recipient-Address	Enumerated Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated Enumerated UTF8String UTF8String Enumerated UTF8String Grouped	29.140 [16

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1109 Routeing-Address	UTF8String	
1110 Originating-Interface	Enumerated	
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key	UTF8String	
1115 Billing-Information	UTF8String	
1116 Status	Grouped	
1117 Status-Code 1118 Status-Text	UTF8String UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	UTF6String	
1200 Domain-Name	UTF8String	
1201 Recipient-Address	Grouped	
1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size	Unsigned32	
1207 Additional-Content-Information	Grouped	
1208 Addressee-Type	Enumerated	
1209 Priority	Enumerated	
1210 Message-ID	UTF8String	
1211 Message-Type	Enumerated	
1212 Message-Size	Unsigned32	
1213 Message-Class	Grouped	
1214 Class-Identifier	Enumerated	
1215 Token-Text	UTF8String	
1216 Delivery-Report-Requested	Enumerated	
1217 Adaptations	Enumerated	
1218 Applic-ID	UTF8String	
1219 Aux-Applic-Info	UTF8String	
1220 Content-Class	Enumerated	
1221 DRM-Content	Enumerated	
1222 Read-Reply-Report-Requested	Enumerated	
1223 Reply-Applic-ID 1224 File-Repair-Supported	UTF8String Enumerated	
1225 MBMS-User-Service-Type	Enumerated	
1226 Unit-Quota-Threshold	Unsigned32	
1227 PDP-Address	Address	32.299 [5]
1228 SGSN-Address	Address	
1229 PoC-Session-Id	UTF8String	
1230 Deferred-Location-Even-Type	UTF8String	
1231 LCS-Client-Name	UTF8String	
1232 LCS-Client-Id	Grouped	
1233 LCS-Client-Dialed-By-MS	UTF8String	
1234 LCS-Client-External-ID	UTF8String	
1235 LCS-Client-Name	Grouped	
1236 LCS-Data-Coding-Scheme	UTF8String	
1237 LCS-Format-Indicator	Enumerated	
1238 LCS-Name-String	UTF8String	
1239 LCS-Requestor-Id	Grouped	
1240 LCS-Requestor-Id-String	UTF8String	
1241 LCS-Client-Type	Enumerated	
1242 Location-Estimate	UTF8String	
1243 Location-Estimate-Type	Enumerated	
1244 Location-Type	Grouped	
1245 Positioning-Data	UTF8String	
1246 WLAN-Session-Id	UTF8String	
1247 PDP-Context-Type	Enumerated	
1248 MMBox-Storage-Requested	Enumerated	
1249 Service-Specific-Info	Grouped	
1250 Called-Asserted-Identity	UTF8String	
1251 Requested-Party-Address	UTF8String Crouped	
1252 PoC-User-Role	Grouped	
1253 PoC-User-Role-IDs	UTF8String	

4054 D-O Hann Dala into Haite		
1254 PoC-User-Role-info-Units	Enumerated	
1255 Talk-Burst-Exchange	Grouped	
1256 Service-Generic-Information	Grouped	
1257 Service-Specific-Type 1258 Event-Charging-TimeStamp	Unsigned32	
	Time	
1259 Participant-Access-Priority	Enumerated	
1260 Participant-Group	Grouped	
1261 PoC-Change-Conditions	Enumerated	
1262 PoC-Change-Time	Time	
1263 Access-Network-Information	OctetString	
1264 Trigger	Grouped	
1265 Base-Time-Interval	Unsigned32	
1266 Envelope	Grouped	
1267 Envelope-End-Time	Time	
1268 Envelope-Reporting	Enumerated	
1269 Envelope-Start-Time	Time	
1270 Time-Quota-Mechanism	Grouped	
1271 Time-Quota-Type	Enumerated	
1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps	Grouped	
1274 SDP-Offer-Timestamp	Time	
1275 SDP-Answer-Timestamp	Time	
1276 AF-Correlation-Information	Grouped	
1277 PoC-Session-Initiation-type	Enumerated	
1278 Offline-Charging	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
LIZOZ LIZIN-DUISI-VUIUUE		
1288 Media-Initiator-Party	UTF8String	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299	UTF8String	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data	UTF8String Grouped	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information	UTF8String Grouped Grouped	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI	UTF8String Grouped Grouped UTF8String	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version	Grouped Grouped UTF8String UTF8String UTF8String	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed	Grouped Grouped UTF8String UTF8String UTF8String UTF8String	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags	Grouped Grouped UTF8String UTF8String UTF8String UTF8String UTF8String Unsigned32	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags	Grouped Grouped UTF8String UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id	Grouped Grouped UTF8String UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info	Grouped Grouped UTF8String UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN-GERAN-Authentication-Info	Grouped Grouped UTF8String UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors	Grouped Grouped UTF8String UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info	Grouped Grouped UTF8String UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Unsigned32 Unsigned32 OctetString Unsigned32	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 OctetString Unsigned32	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped	29.272 [21]
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Grouped Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped	29.272 [21]
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped	29.272 [21]
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Grouped	29.272 [21]
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Grouped	29.272 [21]
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Grouped	29.272 [21]
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULA-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Enumerated Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Enumerated Enumerated Unsigned32 Enumerated	29.272 [21]
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Frouped Grouped Enumerated Unsigned32 Enumerated Unsigned32	29.272 [21]
1288 Media-Initiator-Party	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Frouped Grouped Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32	29.272 [21]
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Frouped Grouped Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32	29.272 [21]
1288 Media-Initiator-Party	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Frouped Grouped Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32	29.272 [21]
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Frouped Grouped Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32	29.272 [21]
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status	Grouped Grouped UTF8String UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated	29.272 [21]
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1419 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32	29.272 [21]
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector 1415 UTRAN-Vector 1416 GERAN-Vector 1417 Network-Access-Mode 1418 HPLMN-ODB 1419 Item-Number 1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Grouped Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 UTF8String	29.272 [21]

1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile	Grouped	
1432 VPLMN-Dynamic-Address-Allowed	Enumerated	
1433 STN-SR	OctetString	
1434 Alert-Reason	Enumerated	
1435 AMBR	Grouped	
1436 CSG-Subscription-Data	Grouped	
1437 CSG-Id	Unsigned32	
1438 PDN-GW-Allocation-Type	Enumerated	
1439 Expiration-Date	Time	
1440 RAT-Frequency-Selection-Priority	FFS	
1441 IDA-Flags	Unsigned32	
1442 PUA-Flags	Unsigned32	
1443 NOR-Flags	Unsigned32	
1444 User-Id	UTF8String	
1445 Equipment-Status	Enumerated	
1446 Regional-Subscription-Zone-Code	OctetString	
1447 RAND	OctetString	
1448 XRES	OctetString	
1449 AUTN	OctetString	
1450 KASME	OctetString	
1451 Reserved	-	
1452 Trace-Collection-Entity	Address	
1453 Kc	OctetString	
1454 SRES	OctetString	
1455 Reserved	-	
1456 PDN-Type	Enumerated	
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated	
1458 Trace-Data		
	Grouped	
1459 Trace-Reference	OctetString	
1460 Reserved	-	
1461 Reserved		
1462 Trace-Depth	Enumerated	
1463 Trace-NE-Type-List	OctetString	
1464 Trace-Interface-List	OctetString	
1465 Trace-Event-List	OctetString	
1466 OMC-Id	OctetString	
1467 GPRS-Subscription-Data	Grouped	
1468 Complete-Data-List-Included-Indicator	Enumerated	
1469 PDP-Context	Grouped	
1470 PDP-Type	OctetString	
1471 3GPP2-MEID	OctetString	
1472 Specific-APN-Info	Grouped	
1473 LCS-Info	Grouped	
1474 GMLC-Number	OctetString	
1475 LCS-PrivacyException	Grouped	
1476 SS-Code	OctetString	
1477 SS-Status	OctetString	
1478 Notification-To-UE-User	Enumerated	
1479 External-Client	Grouped	
1480 Client-Identity	OctetString	
1481 GMLC-Restriction	Enumerated	
1482 PLMN-Client	Enumerated	
1483 Service-Type	Grouped	
1484 ServiceTypeIdentity	Unsigned32	
1485 MO-LR	Grouped	
1486 Teleservice-List	Grouped	
1487 TS-Code	Enumerated	
	Grouped	
1488 Call-Barring-Info	Groupeu	
1489 SGSN-Number	OctetString	
1489 SGSN-Number 1490 IDR-Flags		
1489 SGSN-Number 1490 IDR-Flags Note: The AVP codes from 1491 to 1499 are reserved for TS 29.272.	OctetString Unsigned32	
1488 Call-Barring-Info 1489 SGSN-Number 1490 IDR-Flags Note: The AVP codes from 1491 to 1499 are reserved for TS 29.272. 1500 Non-3GPP-User-Data 1501 Non-3GPP-IP-Access	OctetString	29.273 [2

	Non-3GPP-IP-Access-APN	Enumerated	
	AN-Trusted	Enumerated	
	ANID	UTF8String	
	Trace-Info	Grouped	
	MIP-FA-RK	OctetString	
	MIP-FA-RK-SPI The AVP codes from 1508 to 1599 are reserved for TS 29.273	Unsigned32	
	SMS-Information	Crounad	
	Data-Coding-Scheme	Grouped Integer32	
	Destination-Interface	Grouped	
	Interface-Id	UTF8String	
	Interface-Port	UTF8String	
	Interface-Text	UTF8String	
	Interface-Type	Enumerated	
	Message-Type	Enumerated	
	Originating-SCCP-Address	Address	
	Originator-Interface	Grouped	
	Recipient-SCCP-Address	Address	
	Reply-Path-Requested	Enumerated	
	SM-Discharge-Time	Time	
	SM-Protocol-ID	OctetString	
	SM-Status	OctetString	
	SM-User-Data-Header	OctetString	
2016	SMS-Node	Enumerated	
	SMSC-Address	Address	
	Client-Address	Address	
	Number-of-Messages-Sent	Unsigned32	
	Low-Balance-Indication	Enumerated	
	Remaining-Balance	Grouped	
	Refund-Information	OctetString	
	Carrier-Select-Routing-Information	UTF8String	
	Number-Portability-Routing-Information	UTF8String	
	PoC-Event-Type	Enumerated	
	Recipient-Info	Grouped	
	Originator-Received-Address	Grouped	
	Recipient-Received-Address SM-Service-Type	Grouped Enumerated	32.299 [5]
	MMTel-Information	Grouped	
	MMTel-Sservice-Type	Unsigned32	
	Service-Mode	Unsigned32	
	Subscriber-Role	Enumerated	
	Number-Of-Diversions	Unsigned32	
	Associated-Party-Address	UTF8String	
	SDP-Type	Enumerated	
	Change-Condition	Integer32	
	Change-Time	Time	
	Diagnostics	Integer32	
	Service-Data-Container	Grouped	
	Start-Time	Time	
2042	Stop-Time	Time	
2043	Time-First-Usage	Time	
2044	Time-Last-Usage	Time	
	Time-Usage	Unsigned32	
	Traffic-Data-Volumes	Grouped	
	Serving-Node-Type	Enumerated	
	Supplementary-Service	Grouped	
	Participant-Action-Type	Enumerated	
	PDN-Connection-Charging-Id	Unsigned32	
	Dynamic-Address-Flag	Enumerated	
	Accumulated-Cost	Grouped	
	AoC-Cost-Information	Grouped	
	AoC-Information	Grouped	
	AoC-Request-Type	Enumerated	
	Current-Tariff	Grouped	
∠057	Next-Tariff	Grouped	

2058 Rate-Element	Crounad	
2059 Scale-Factor	Grouped	
	Grouped	
2060 Tariff-Information	Grouped	
2061 Unit-Cost	Grouped	
2062 Incremental-Cost	Grouped	
2063 Local-Sequence-Number	Unsigned32	
2064 Node-Id	UTF8String	
2065 SGW-Change	Enumerated	
2066 Charging-Characteristics-Selection-Mode	Enumerated	
2067 SWG-Address	Address	
2068 Dynamic-Address-Flag-Extension	Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299		
2100 reserved	-	
2101 Application-Server-ID	UTF8String	
2102 Application-Service-Type	Enumerated	
2103 Application-Session-ID	Unsigned32	
2104 Delivery-Status	UTF8String	
2105 reserved	-	
2106 reserved	-	
2107 reserved	-	
2108 reserved	-	
2109 reserved	-	32.299 [5]
2110 IM-Information	Grouped	
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112 Number-Of-Messages-Successfully-Sent	Unsigned32	
2113 Total-Number-Of-Messages-Exploded	Unsigned32	
2114 Total-Number-Of-Messages-Sent	Unsigned32	
2115 DCD-Information	Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String	
2118 Charge-Reason-Code	Enumerated	
Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299		I
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
2202 Subsession-Id	Unsigned32	29.215 [22]
2203 Subsession-Operation	Enumerated	
2204 Multiple-BBERF-Action	Enumerated	
Note: The AVP codes from 2204 to 2299 are reserved for TS 29.215	Litamoratod	
THORE. THE AVE COURS HOLL ZECT TO ZECO ALC LEGGIVED TO ESTADIO		

8 Experimental result codes

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

8.1 3GPP specific result codes

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

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

8.1.1 Informational

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

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

8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

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

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental	Result text	Specified in the TS				
Result Code						
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]				
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS					
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.					
4121	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]				
Note: The Experime	ntal Result Codes from 4121 to 4140 are reserved for the TS 29.061.					
4141	DIAMETER_PCC_BEARER_EVENT	20 242 [40]				
4142	DIAMETER_BEARER_EVENT	29.212 [19]				
Note: The Experime	ntal Result Codes from 4143 to 4160 are reserved for the TS 29.212					
		32.299 [5]				
Note: The Experime	Note: The Experimental Result Codes from 4161 to 4180 are reserved for the TS 32.299.					
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	29.272 [21]				
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.					

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	29.229 [2]
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5011	DIAMETER ERROR FEATURE UNSUPPORTED	
	erimental Result Codes from 5012 to 5020 are reserved for the TS	3 29.229.
110101 1110 2545		32.299 [5]
Note: The Expe	erimental Result Codes from 5021 to 5040 are reserved for the TS	
5041	DIAMETER ERROR USER NO WLAN SUBSCRIPTION	02.200.
5042	DIAMETER ERROR W-APN UNUSED BY USER	
5043	DIAMETER ERROR NO ACCESS INDEPENDENT SUBSC	
3043	RIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION DIAMETER ERROR UNSUITABLE NETWORK	
	erimental Result Codes from 5046 to 5060 are reserved for the TS	20 234
		J 25.234.
5061	INVALID_SERVICE_INFORMATION	00 000 101
5062	FILTER_RESTRICTIONS	29.209 [8],
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	29.211 [17],
5064	DUPLICATED_AF_SESSION	29.214 [18]
5065	IP-CAN_SESSION_NOT_AVAILABLE	
	erimental Result Codes from 5066 to 5080 are reserved for TS 29).209, TS 29.211
	TS 29.214 [18].	
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	141 000 00
5105	DIAMETER_ERROR_TRANSPARENT_DATA	29.329 [4]
	OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	erimental Result Codes from 5109 to 5119 are reserved for the TS	3 29.329.
5120	DIAMETER_ERROR_START_INDICATION	2 20.020.
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]
0122	E	20.001 [10]
5123	DIAMETER ERROR SERVICE AREA	
		i e e e e e e e e e e e e e e e e e e e
5140	rimental Result Codes from 5124 to 5139 are reserved for the To	3 29 061
	erimental Result Codes from 5124 to 5139 are reserved for the TS	3 29.061.
E1//1	DIAMETER_ERROR_INITIAL_PARAMETERS	3 29.061.
5141	DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT	3 29.061.
5142	DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT	S 29.061.
5142 5143	DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	
5142	DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	29.212 [19]
5142 5143 5144	DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D	
5142 5143 5144 5145	DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D DIAMETER_QOS_RULE_EVENT	
5142 5143 5144 5145 5146	DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D DIAMETER_QOS_RULE_EVENT reserved	
5142 5143 5144 5145 5146 5147	DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D DIAMETER_QOS_RULE_EVENT reserved DIAMETER_ERROR_CONFLICTING_REQUEST	29.212 [19]
5142 5143 5144 5145 5146 5147 Note: The Expe	DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D DIAMETER_QOS_RULE_EVENT reserved DIAMETER_ERROR_CONFLICTING_REQUEST erimental Result Codes from 5148 to 5159 are reserved for the TS	29.212 [19]
5142 5143 5144 5145 5146 5147 Note: The Expe	DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D DIAMETER_QOS_RULE_EVENT reserved DIAMETER_ERROR_CONFLICTING_REQUEST erimental Result Codes from 5148 to 5159 are reserved for the TS DIAMETER_ERROR_IDENTITY_UNKNOWN	29.212 [19] S 29.212.
5142 5143 5144 5145 5146 5147 Note: The Expert 5401 5402	DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D DIAMETER_QOS_RULE_EVENT reserved DIAMETER_ERROR_CONFLICTING_REQUEST erimental Result Codes from 5148 to 5159 are reserved for the TS DIAMETER_ERROR_IDENTITY_UNKNOWN DIAMETER_ERROR_NOT_AUTHORIZED	29.212 [19]
5142 5143 5144 5145 5146 5147 Note: The Expert 5401 5402 5403	DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D DIAMETER_QOS_RULE_EVENT reserved DIAMETER_ERROR_CONFLICTING_REQUEST erimental Result Codes from 5148 to 5159 are reserved for the TS DIAMETER_ERROR_IDENTITY_UNKNOWN DIAMETER_ERROR_NOT_AUTHORIZED DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	29.212 [19] S 29.212. 29.109 [7]
5142 5143 5144 5145 5146 5147 Note: The Expert 5401 5402 5403	DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D DIAMETER_QOS_RULE_EVENT reserved DIAMETER_ERROR_CONFLICTING_REQUEST erimental Result Codes from 5148 to 5159 are reserved for the TS DIAMETER_ERROR_IDENTITY_UNKNOWN DIAMETER_ERROR_NOT_AUTHORIZED DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID erimental Result Codes from 5404 to 5419 are reserved for the TS	29.212 [19] S 29.212. 29.109 [7]
5142 5143 5144 5145 5146 5147 Note: The Expert 5401 5402 5403	DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D DIAMETER_QOS_RULE_EVENT reserved DIAMETER_ERROR_CONFLICTING_REQUEST erimental Result Codes from 5148 to 5159 are reserved for the TS DIAMETER_ERROR_IDENTITY_UNKNOWN DIAMETER_ERROR_NOT_AUTHORIZED DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID erimental Result Codes from 5404 to 5419 are reserved for the TS DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	29.212 [19] S 29.212. 29.109 [7]
5142 5143 5144 5145 5146 5147 Note: The Expe 5401 5402 5403 Note: The Expe	DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D DIAMETER_QOS_RULE_EVENT reserved DIAMETER_ERROR_CONFLICTING_REQUEST erimental Result Codes from 5148 to 5159 are reserved for the TS DIAMETER_ERROR_IDENTITY_UNKNOWN DIAMETER_ERROR_NOT_AUTHORIZED DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID erimental Result Codes from 5404 to 5419 are reserved for the TS	29.212 [19] S 29.212. 29.109 [7]

Note: The Experimental Result Codes from 5423 to 5449 are reserved for the TS 29.272.				
5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI			
	ON	20 272 [20]		
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	29.273 [20]		
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED			
Note: The Experimental Result Codes from 5453 to 5469 are reserved for the TS 29.273.				
5470	DIAMETER_ERROR _SUBSESSION	29.215 [22]		
Note: The Experimental Result Codes from 5471 to 5489 are reserved for the TS 29.215.				

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

			1		Change history		
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292			Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25	NP-040401			Correction of Charging application reference	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Removal of User Data Request Type AVP	6.0.0	6.1.0
2004-09	CN#25	NP-040412		1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26	NP-040579			Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12	CN#26	NP-040580		1	Reservation of command code 310	6.1.0	6.2.0
2004-12	CN#26	NP-040579		1	Addition of Gmb interface	6.1.0	6.2.0
2004-12	CN#26	NP-040600		2	Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047		1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039			Allocations for Gx interface]	
		NP-050039			Allocations for Gmb interface]	
		NP-050039			Allocations for MMS, MM10 Interface		
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.3.0	6.4.0
		CP-050196		1	Addition of Maximum-Number-Accesses AVP		
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.4.0	6.5.0
		CP-050310	0053		Addition of Pr reference point to TS 29.230		
		CP-050310	0054		Error code cleanup		
		CP-050310	0056		Addition of Rx ref. point and renaming of Experimental Result Codes		
2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-12	CT#30	CP-050624			Addition of GBA-Type AVP	7.0.0	7.1.0
		CP-050612			Additional Gmb AVP Allocation		
		CP-050612			Reservation of AVP codes for 32.299		
		CP-050625			Management of Sh subscriptions	i	
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
2000 00	01//01	CP-060084			User-Data in the response to Sh-Subs-Notif	1	7.2.0
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure	i	
2006-06	CT#32	CP-060302		i e	S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417		3	New AVP Code	7.3.0	7.4.0
2000 00	017700	CP-060417			Errors to be sent in response to Sh-Notif	7.0.0	7.1.0
		CP-060417			Definition of specific Diameter codes for DSAI	i	
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
2000 .2	00.	CP-060562			Addition of Diameter Error Code for Emergency Purposes		
		CP-060555			Allocation of new AVP codes for Gmb	i	
		CP-060555			AVP code allocations for Rf and Ro interfaces	i	
		CP-060566			Allocation of Success Result Code Range for Gi Interface		
2007-03	CT#35	CP-070020			C3 requested addition of new AVP code values to 3GPP TS 29.230	7.5.0	7.6.0
200. 00	000	CP-070020			Allocation of new AVP code for DSAI-Tag AVP		
		CP-070020			Allocation of Experimental-Result-Code AVP for Gi Interface	i	
2007-06	CT#36	CP-070318			Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312			Experimental-Result-Codes for Gmb interface		
		CP-070312			Correction of Diameter AVP code allocation	İ	
2007-09	CT#37	CP-070527			Application ID for Gx protocol	7.7.0	7.8.0
2007-12	CT#38	CP-070743			AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
2001 12	000	0. 0.0.10	0105		Allocation of 3GPP specific AVP codes and Experimental Result	1	
					Codes for Gx protocol		
2007-12	CT#38	CP-070755	0101 0103	4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
2009 02	CT#39	CD 000045			AVP code reservation for 32.299 in Rel-8	9 0 0	010
2008-03	01#39	CP-080015		 	Correction of reference to TS 29.140	8.0.0	8.1.0
		CP-080019			AVP code reservation for TS 32.299 in Rel-8	1	
	}	CP-080019 CP-080191		1	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in	1	
					Rel-7		
0000 00	OT#10	CP-080204			Correction on AVP code allocation reservation for TS 32.299	0.4.5	0.0.0
2008-06	CT#40	CP-080267		1	A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-09	CT#41	CP-080456			Emergency Public User Identity Removal	8.2.0	8.3.0
2008-09	CT#41	CP-080460			Support of "Loose-Route" indication from HSS		
2008-09	CT#41	CP-080460		1	STaMIP Application Id		
2008-09	CT#41	CP-080463	0123		Cx Impacts of IMS Restoration Procedures (New AVP Codes]	

I	ı	1		I	Assignment)		1
2008-09	CT#41	CP-080463	0124		New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-09	CT#41	CP-080403	-	2	Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691			Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#42	CP-090044	-	1	Update for ReadyForSM	8.4.0	8.5.0
2009-03	CT#43	CP-090044		1	Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090044		1	Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090026			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090024		2	Applid and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090033		1		8.4.0	8.5.0
					AVP codes for S9 protocol		
2009-03	CT#43	CP-090024		1	Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	Location of Permanent Failure result code range for the S9 application	8.4.0	8.5.0
2009-03	CT#43	CP-090024	-		AVPs for TS 29.273	8.4.0	8.5.0
2009-03	CT#43	CP-090024	-		Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299		4	Update of the AVP Codes	8.5.0	8.6.0
		CP-090299			AVP code reservation for TS 32.299		
		CP-090299	0145		Diameter Command Codes for S6a/S6d/S13/S13"		
			0146		Removal of Requesting Node Type from AIR		
		CP-090299	0147		S6b Application ID		
2009-09	CT#45	CP-090530	0149		Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
		CP-090530	-		AVP code allocation for TS 29.212		
		CP-090531	0150		Update of the AVP type for the User-Id		
		CP-090531	0153		Trace Depth per session		
2009-12	CT#46	CP-091032	0155		From GMLC-Address to GMLC-Number	8.7.0	8.8.0
			0159		Session-Priority AVP		
			0165		Missing AVP error codes		
2010-03	CT#47	CP-100031	0157	2	Wildcarded Public Identity	8.8.0	8.9.0
		CP-100033	0179	1	One time notification AVP allocation		
2010-06	CT#48	CP-100263	0187	1	AVP Codes for PCC	8.9.0	8.10.0
2011-06	CT#52	CP-110349	0218	2	Handling of RTR for Emergency Registration	8.10.0	8.11.0
		CP-110347	0229	1	Add AVPs from QSPEC cleanup		
		CP-110359	0224		MIPv4 security parameters on the STa and S6b interfaces		
2011-09	CT#53	CP-110552	0247		Experimental Result Code Alignment with 29.061	8.11.0	8.12.0
		CP-110554	0242		AVP code alignment with 29.214		
		CP-110555	0237		AVP code alignment with 32.299		
		CP-110555	0250		Failure code alignment with 29.212		
2011-12	CT#53	CP-110781	0278	1	Restoration of Wildcarded-IMPU AVP	8.12.0	8.13.0
2012-06	CT#56	CP-120219			Duplicated AVP names		8.14.0
2012-12	CT#58	CP-120716		1	AVP name modification in TS 32.299	8.14.0	8.15.0
2013-06	CT#60	CP-130279		1	Definition of SS Status for Call Barring		8.16.0
2013-12	CT#62	CP-130600		-	Allocation of Diameter codes for 32.299		8.17.0
2014-06	CT#64	CP-140231			Adding Codes for 29.214		8.18.0
	ĺ	CP-140257			SS-Status AVP Definition		

History

	Document history					
V8.4.0	January 2009	Publication				
V8.5.0	April 2009	Publication				
V8.6.0	June 2009	Publication				
V8.7.0	October 2009	Publication				
V8.8.0	January 2010	Publication				
V8.9.0	April 2010	Publication				
V8.10.0	June 2010	Publication				
V8.11.0	June 2011	Publication				
V8.12.0	October 2011	Publication				
V8.13.0	January 2012	Publication				
V8.14.0	July 2012	Publication				
V8.15.0	January 2013	Publication				
V8.16.0	July 2013	Publication				
V8.17.0	December 2013	Publication				
V8.18.0	July 2014	Publication				