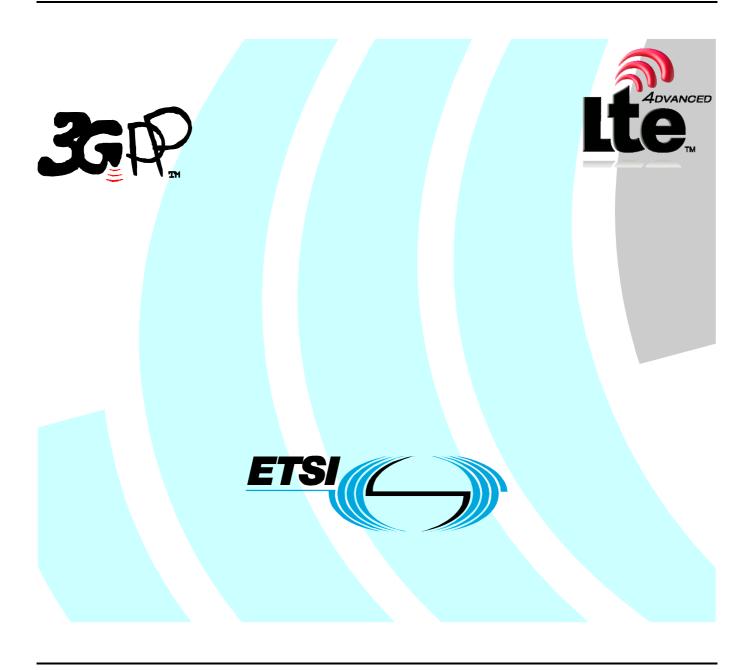
## ETSITS 129 230 V10.3.0 (2011-06)

Technical Specification

Digital cellular telecommunications system (Phase 2+);
Universal Mobile Telecommunications System (UMTS);
LTE;
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3GPP specific codes and identifiers
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## Foreword

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Version x.y.z

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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

## 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: <a href="http://www.iana.org/assignments/enterprise-numbers">http://www.iana.org/assignments/enterprise-numbers</a>
[12]	IANA's AAA parameters register: <a href="ftp://ftp.iana.org/assignments/aaa-parameters/">ftp://ftp.iana.org/assignments/aaa-parameters/</a>
[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)".
[24]	3GPP TS 29.172: "Location Services; EPC LCS Protocol (ELP) between the GMLC and the MME; SLg interface".
[25]	3GPP TS 29.173: "Location Services; Diameter-based SLh interface for Control Plane LCS".

## 3 Definitions and abbreviations

#### 3.1 Definitions

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

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

#### 3.2 Abbreviations

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

AVP Attribute-Value-Pair CR Change Request

IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force

LS Liaison Statement

## 4 Application identifiers

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

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

## 4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

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

## 5 Command codes

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

### 5.1 Command codes allocated for 3GPP

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

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

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

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

Table 5.1/2: Command codes allocated for 3GPP

Command code value	Command name	Abbreviation	Specified in 3GPP TS
313	<u>-                                    </u>		

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

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

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

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

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

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

## 6 Vendor identifier

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

#### 6.1 3GPP's vendor identifier

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

## 7 Attribute-Value-Pair codes

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

## 7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Cod e	Attribute Name	Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	
	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
	3GPP-WLAN-QoS-Filter-Support	OctetString	
Note:	The AVP codes from 1 to 255 are reserved for backwards compatik	oility with 3GPP RADIUS	Vendor Specific
Attrib	utes (See TS 29.061 [13] and TS 29.234 [6])		
Note:	The AVP codes from 256 to 299 are reserved for future use.		
300	Authentication-Method	Enumerated	
301	Authentication-Information-SIM	OctetString	
302	Authorization -Information-SIM	OctetString	
303	WLAN-User-Data	Grouped	
304	Charging-Data	Grouped	
305	WLAN-Access	Enumerated	1
306	WLAN- 3GPP-IP-Access	Enumerated	1
307	APN-Authorized	Grouped	1
308	APN-Id		1
309	APN-Barring-Type	Enumerated	20 224 [0]
	WLAN-Direct-IP-Access	Enumerated	29.234 [6]
	Session-Request-Type	Enumerated	7
	Routing-Policy	IPFilterRule	7
	Max-Requested-Bandwidth	OctetString	†
	Charging-Characteristics	Integer	†
	Charging-Nodes	Grouped	┪
	Primary-OCS-Charging-Function-Name	DiameterIdentity	†
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	+
	3GPP-AAA-Server-Name	DiameterIdentity	+
	Maximum-Number-Accesses	Unsigned32	+
	The AVP codes from 320 to 399 are reserved for TS 29.234	Orisignedsz	
	GBA-UserSecSettings	OctetString	
	Transaction-Identifier	OctetString	1
402	NAF-Hostname	OctetString	7
	GAA-Service-Identifier	OctetString	1
404	Key-ExpiryTime	Time	
	ME-Key-Material	OctetString	
	UICC-Key-Material	OctetString	4
407	GBA_U-Awareness-Indicator BootstrapInfoCreationTime	Enumerated Time	=
400	GUSS-Timestamp	Time	+
	GBA-Type	Enumerated	29.109 [7]
	UE-Id	OctetString	
412	UE-Id-Type	Enumerated	
413	UICC-App-Label	OctetString	
	UICC-ME	Enumerated	
	Requested-Key-Lifetime	Time	_
	Private-Identity-Request	Enumerated	
	GBA-Push-Info NAF-SA-Identifier	OctetString	=
410	Security-Feature-Request	OctetString OctetString	+
	Security-Feature-Response	OctetString	=
	The AVP codes from 421 to 499 are reserved for TS 29.109	Cotototinig	
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	1
	Access-Network-Charging-Identifier	Grouped	╡
	Access-Network-Charging-Identifier-Value	OctetString	20 200 [9]
	ACCESS-Network-Charging-Identifier-Value AF-Application-Identifier	OctetString	29.209 [8], 29.211 [17]
	AF-Application-identifier AF-Charging-Identifier	OctetString	23.211[1/]
	Ar-charging-identifier Authorization-Token		$\dashv$
		OctetString	-
507	Flow-Description	IPFilterRule	

	<del>_</del>		
	Flow-Grouping	Grouped	
	Flow-Number	Unsigned32	
	Flows	Grouped	
	Flow-Status	Enumerated	
	Flow-Usage	Enumerated	
	Specific-Action	Enumerated	
	Max-Requested-Bandwidth	Unsigned32	
	Max-Requested-Bandwidth-DL	Unsigned32	
	Max-Requested-Bandwidth-UL	Unsigned32	
	Media-Component-Description	Grouped	
	Media-Component-Number	Unsigned32	
	Media-Sub-Component AVP	Grouped	
	Media-Type	Enumerated	
	RR-Bandwidth	Unsigned32	
	RS-Bandwidth RS-Bandwidth	Unsigned32	
	SIP-Forking-Indication	Enumerated	
	The AVP codes from 524 to 599 are reserved for TS 29.209 and TS		
	Visited-Network-Identifier	OctetString	
	Public-Identity	UTF8String	
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	
	SIP-Authorization	OctetString	
	SIP-Authentication-Context	OctetString	
	SIP-Auth-Data-Item	Grouped	
	SIP-Item-Number	Unsigned32	
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
	Reason-Info	UTF8String	
	Charging-Information	Grouped	
	Primary-Event-Charging-Function-Name	DiameterURI	
	Secondary-Event-Charging-Function-Name	DiameterURI	
	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
	User-Authorization-Type	Enumerated	29.229 [2]]
	User-Data-Already-Available	Enumerated	
	Confidentiality-Key	OctetString	
626	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
	Supported-Applications	Grouped	
	Associated-Identities	Grouped	
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	reserved	11 ' '	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
	SCSCF-Restoration-Info	Grouped	
	Path	OctetString	
	Contact	OctetString	
	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	
	Record-Route	OctetString	
647	Associated-Registered-Identities	Grouped	

648	Multiple-Registration-Indication	Enumerated	
	Restoration-Info	Grouped	
	Session-Priority	Enumerated	
	Identity-with-Emergency-Registration	Grouped	
	The AVP codes from 652 to 699 are reserved for TS 29.229.	Grouped	
	User-Identity	Grouped	
	MSISDN	OctetString	
	User-Data	OctetString	
	Data-Reference	Enumerated	
	Service-Indication		
		OctetString	
	Subs-Req-Type	Enumerated	
	Requested-Domain	Enumerated	
	Current-Location	Enumerated	
	Identity-Set	Enumerated	29.329 [4]
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	
	One-Time-Notification	Enumerated	
	Requested-Nodes	Unsigned32	
	Serving-Node-Indication	Enumerated	
	Repository-Data-ID	Grouped	
	Sequence-Number	Unsigned32	
	Pre-paging-Supported	Enumerated	
	The AVP codes from 718 to 799 are reserved for TS 29.329.		
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
	Event-Type	Grouped	
	SIP-Method	UTF8String	
	Event	UTF8String	
	Content-Type	UTF8String	
	Content-Length	Unsigned32	
	Content-Disposition	UTF8String	
829	Role-of-Node	Enumerated	
830	User-Session-Id	UTF8String	
831	Calling-Party-Address	UTF8String	
	Called-Party-Address	UTF8String	
	Time-Stamps	Grouped	
	SIP-Request-Timestamp	Time	
	SIP-Response-Timestamp	Time	
	Application-Server	UTF8String	
	Application-provided-called-party-address	UTF8String	
	Inter-Operator-Identifier	Grouped	
	Originating-IOI	UTF8String	
	Terminating-IOI	UTF8String	
	IMS-Charging-Identifier	UTF8String	
	SDP-Session-Description	UTF8String	
	SDP-Media-Component	Grouped	32.299 [5]
	SDP-Media-Name	UTF8String	
	SDP-Media-Description	UTF8String	
	CG-Address	Address	
	GGSN-Address	Address	
	Served-Party-IP-Address	Address	
	Served-Party-IP-Address Authorized-QoS		
		UTF8String Crouped	
	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 Charged Party Charged Party Charged Party Charged Party Charged Party Charged Party Part	UTF8String	
	PoC-Controlling-Address	UTF8String	
	PoC-Group-Name	UTF8String	
	Cause	Grouped	
	Cause-Code	Integer32	
	Node-Functionality	Enumerated	

September   Sept	863	Service-Specific-Data	UTF8String	
666   PS-Fure-Format-Data				
666   PS-Free-Format-Data				
B6F   PS-Append-Free-Format-Data   Enumerated   B6B   Time-Quota-Threshold   Unsigned32   B6B   Volume-Quota-Threshold   Unsigned32   B70   Trigger-Type   Enumerated   B71   Quota-Holding-Time   Unsigned32   B72   Reporting-Reason   Enumerated   B73   Service-Information   Grouped   B74   PS-Information   Grouped   B75   WLAN-Information   Grouped   B76   WLAN-Information   Grouped   B77   MMS-Information   Grouped   B78   MS-Information   Grouped   B79   DS-Information   Grouped   B79   DS-Information   Grouped   B79   B0-Information   Grouped   B79				
B88   Volume_Outer_Threshold				
869   Volume-Quota-Threshold				
871   Quota-Holding-Time				
Page			Enumerated	
Service-Information	871	Quota-Holding-Time		
1874   PS-Information   Grouped				
1875   MU-AN-Information				
1876   MS-Information   Grouped				
Address				
1878   CCS-Information   Grouped				
B79 POC-Information   Grouped				
B80   MBMS-Information				
B81   Quota-Consumption-Time				
B82   Media-Initiator-Flag				
B83   PoC-Server-Role				
B84   PoC-Session-Type				
B85   Number-Ol-Participants				
B86   Originator-Address   Grouped				
B87   Participants-Involved				
B88   Expires				
B89   Message-Body				
B80   WAG-Address   Address   WAG-PLMN-Id   OctetString   B82   WLAN-Radio-Container   Grouped   Grouped				
B91   WAG-PLMN-Id				
892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-PAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Domain         Grouped           890         Required-MBMS-Bearer-Capabilities         UTF8String           901         Required-MBMS-Bearer-Capabilities         UTF8String           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-StartStop-Indication         Enumerated           903         MBMS-Service-Area         OctectString           904         MBMS-Service-Area         OctectString           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-Service-Type         Enumerated           907         RAI         UTF8String           909         RAI         UTF8String           910         Additional-MBMS-Trace-Info <td< td=""><td></td><td></td><td></td><td></td></td<>				
893         WLAN-Technology         Unsigned32           894         WLAN-LE-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-Satrice-Area         OctectString           903         MBMS-Service-Area         OctectString           904         MBMS-Service-Area         OctectString           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-Service-Type         Enumerated           908         MBMS-Session-Identity         OctetString           910         Additional-MBMS-Trace-Info         OctetString           911         MBMS-MS-Session-Identity-Repetition-Number         Unsigned32           912         MBMS-Session-Identity-Repetition-Number         Unsigned32           913				
B94   WLAN-UE-Local-PAddress				
895   PDG-Address   Address				
897   Address-Data			Address	
898   Address-Domain   Grouped	896	PDG-Charging-Id	Unsigned32	
Superior				
900   TMG    OctectString   901   Required-MBMS-Bearer-Capabilities   UTF8String   902   MBMS-StartStop-Indication   Enumerated   903   MBMS-Service-Area   OctectString   904   MBMS-Session-Duration   Unsigned32   905   Alternative-APN   UTF8String   906   MBMS-Service-Type   Enumerated   907   MBMS-2G-3G-Indicator   Enumerated   907   MBMS-Session-Identity   OctetString   909   RAI   UTF8String   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-IPv6-Address   UTF8String   919   MBMS-BMSC-SSM-IPv6-Address   UTF8String   920   MBMS-Flow-Identifier   OctetString   921   CN-IP-Multicast-Distribution   Enumerated   922   MBMS-How-Identifier   OctetString   921   CN-IP-Multicast-Distribution   Enumerated   922   MBMS-Access-Indicator   Enumerated   923   MBMS-Access-Indicator   Enumerated   923   MBMS-Access-Indicator   Enumerated   923   MBMS-Access-Indicator   Enumerated   Enumerated   923   MBMS-Access-Indicator   Enumerated   Enumerated   923   MBMS-Access-Indicator   Enumerated   Enumerated   924   1000   Bearer-Usage   Enumerated   Enumerated   924   1000   Bearer-Usage   Enumerated   926   Enumerated   927   1000   Bearer-Usage   Enumerated   928   1000   10				
Required-MBMS-Bearer-Capabilities	899	Address-Type	Enumerated	
Required-MBMS-Bearer-Capabilities		<b>-</b>	· · · · · · · · · · · · · · · · · · ·	
902   MBMS-StartStop-Indication				
903         MBMS-Service-Area         OctectString           904         MBMS-Session-Duration         Unsigned32           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-2G-3G-Indicator         Enumerated           908         MBMS-Session-Identity         OctetString           909         RAI         UTF8String           910         Additional-MBMS-Trace-Info         OctetString           911         MBMS-Time-To-Data-Transfer         Unsigned32           912         MBMS-Session-Identity-Repetition-Number         Unsigned32           913         MBMS-Required-QoS         UTF8String           914         MBMS-Counting-Information         Enumerated           915         MBMS-Juser-Data-Mode-Indication         Enumerated           915         MBMS-GGSN-Address         UTF8String           917         MBMS-GGSN-P-Address         UTF8String           918         MBMS-BMSC-SSM-IPv6-Address         UTF8String           919         MBMS-BMSC-SSM-IPv6-Address         UTF8String           920         MBMS-Flow-Identifier         OctetString           921         CN-IP-Multicast-Distribution         Enumerated				
904         MBMS-Session-Duration         Unsigned32           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-Session-Identity         OctetString           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-User-Data-Mode-Indication         Enumerated           915         MBMS-User-Data-Mode-Indication         Enumerated           916         MBMS-GGSN-Address         UTF8String           917         MBMS-GGSN-IPv6-Address         UTF8String           918         MBMS-BMSC-SSM-IPv6-Address         UTF8String           919         MBMS-BMSC-SSM-IPv6-Address         UTF8String           920         MBMS-Inw-Identifier         OctetString           921         CN-IP-Multicast-Distribution         Enumerated           922         MBMS-How-Indicator         Enumerated				
905   Alternative-APN				
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-IP-Address   UTF8String     910   MBMS-Ilow-Identifier   OctetString     921   CN-IP-Multicast-Distribution   Enumerated     922   MBMS-HC-Indicator   Enumerated     923   MBMS-Access-Indicator   Enumerated     924   Note: The AVP codes from 924 to 999 are reserved for TS 29.061     1000   Bearer-Usage   Enumerated     920   Enumerated   Enumerated     921   20   21   21   21   21   21   21				
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-IPv6-Address UTF8String 919 MBMS-BMSC-SSM-IPv6-Address UTF8String 919 MBMS-BMSC-SSM-IPv6-Address UTF8String 920 MBMS-Flow-Identifier OctetString 921 CN-IP-Multicast-Distribution Enumerated 922 MBMS-HC-Indicator Enumerated 923 MBMS-Access-Indicator Enumerated Note: The AVP codes from 924 to 999 are reserved for TS 29.061				
908 MBMS-Session-Identity 909 RAI 909 RAI 910 Additional-MBMS-Trace-Info 911 MBMS-Time-To-Data-Transfer 912 MBMS-Session-Identity-Repetition-Number 913 MBMS-Required-QoS 914 MBMS-Counting-Information 915 MBMS-User-Data-Mode-Indication 916 MBMS-GSN-Address 917 MBMS-GSN-IPv6-Address 918 MBMS-BMSC-SSM-IPv6-Address 919 MBMS-BMSC-SSM-IPv6-Address 910 MBMS-BMSC-SSM-IPv6-Address 911 MBMS-BMSC-SSM-IPv6-Address 912 MBMS-BMSC-SSM-IPv6-Address 913 MBMS-BMSC-SSM-IPv6-Address 914 MBMS-BMSC-SSM-IPv6-Address 915 MBMS-BMSC-SSM-IPv6-Address 916 MBMS-BMSC-SSM-IPv6-Address 917 MBMS-BMSC-SSM-IPv6-Address 918 MBMS-BMSC-SSM-IPv6-Address 919 MBMS-BMSC-SSM-IPv6-Address 910 MBMS-BMSC-SSM-IPv6-Address 910 MBMS-BMSC-SSM-IPv6-Address 911 MBMS-BMSC-SSM-IPv6-Address 912 MBMS-BMSC-SSM-IPv6-Address 913 MBMS-BMSC-SSM-IPv6-Address 914 MBMS-BMSC-SSM-IPv6-Address 915 MBMS-BMSC-SSM-IPv6-Address 916 MBMS-BMSC-SSM-IPv6-Address 917 MBMS-BMSC-SSM-IPv6-Address 918 MBMS-BMSC-SSM-IPv6-Address 919 MBMS-BMSC-SSM-IPv6-Address 910 MBMS-BMSC-SSM-IPv6-Address 910 MBMS-BMSC-SSM-IPv6-Address 911 MBMS-BMSC-SSM-IPv6-Address 912 MBMS-BMSC-SSM-IPv6-Address 913 MBMS-BMSC-SSM-IPv6-Address 914 MBMS-BMSC-SSM-IPv6-Address 915 MBMS-BMSC-SSM-IPv6-Address 916 MBMS-BMSC-SSM-IPv6-Address 917 MBMS-BMSC-SSM-IPv6-Address 918 MBMS-BMSC-SSM-IPv6-Address 919 MBMS-BMSC-SSM-IPv6-Address 910 MBMS-BMS-BMSC-SSM-IPv6-Address 910 MBMS-BMSC-SSM-IPv6-Address 910 MBMS-BMSC-SSM-IPv6-Address 910 MBMS-BMSC-SSM-IPv6-Address 911 MBMS-BMS-BMSC-SSM-IPv6-Address 912 MBMS-BMS-BMS-BMS-BMS-BMS-BMS-BMS-BMS-BMS				
909 RAI 910 Additional-MBMS-Trace-Info 911 MBMS-Time-To-Data-Transfer 912 MBMS-Session-Identity-Repetition-Number 913 MBMS-Required-QoS 914 MBMS-Counting-Information 915 MBMS-User-Data-Mode-Indication 916 MBMS-GGSN-Address 917 MBMS-GGSN-IPv6-Address 918 MBMS-BMSC-SSM-IP-Address 919 MBMS-BMSC-SSM-IP-Address 910 MBMS-BMSC-SSM-IPv6-Address 911 MBMS-BMSC-SSM-IPv6-Address 912 MBMS-Flow-Identifier 920 MBMS-Flow-Identifier 921 CN-IP-Multicast-Distribution 922 MBMS-HC-Indicator 923 MBMS-Access-Indicator 924 MBMS-Access-Indicator 925 MBMS-Access-Indicator 926 MBMS-Access-Indicator 927 Note: The AVP codes from 924 to 999 are reserved for TS 29.061				
910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String914MBMS-Counting-InformationEnumerated915MBMS-User-Data-Mode-IndicationEnumerated916MBMS-GGSN-AddressUTF8String917MBMS-GGSN-IPv6-AddressUTF8String918MBMS-BMSC-SSM-IP-AddressUTF8String919MBMS-BMSC-SSM-IPv6-AddressUTF8String920MBMS-Flow-IdentifierOctetString921CN-IP-Multicast-DistributionEnumerated922MBMS-HC-IndicatorEnumerated923MBMS-Access-IndicatorEnumeratedNote: The AVP codes from 924 to 999 are reserved for TS 29.0611000Bearer-UsageEnumerated				
911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String914MBMS-Counting-InformationEnumerated915MBMS-User-Data-Mode-IndicationEnumerated916MBMS-GGSN-AddressUTF8String917MBMS-GGSN-IPv6-AddressUTF8String918MBMS-BMSC-SSM-IP-AddressUTF8String919MBMS-BMSC-SSM-IPv6-AddressUTF8String920MBMS-Flow-IdentifierOctetString921CN-IP-Multicast-DistributionEnumerated922MBMS-HC-IndicatorEnumerated923MBMS-Access-IndicatorEnumeratedNote: The AVP codes from 924 to 999 are reserved for TS 29.061Enumerated1000Bearer-UsageEnumerated				
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 910 MBMS-BMSC-SSM-IPv6-Address UTF8String 921 CN-IP-Multicast-Distribution Enumerated 922 MBMS-HC-Indicator Enumerated 923 MBMS-Access-Indicator Enumerated Note: The AVP codes from 924 to 999 are reserved for TS 29.061 1000 Bearer-Usage Enumerated				
913MBMS-Required-QoSUTF8String914MBMS-Counting-InformationEnumerated915MBMS-User-Data-Mode-IndicationEnumerated916MBMS-GGSN-AddressUTF8String917MBMS-GGSN-IPv6-AddressUTF8String918MBMS-BMSC-SSM-IP-AddressUTF8String919MBMS-BMSC-SSM-IPv6-AddressUTF8String920MBMS-Flow-IdentifierOctetString921CN-IP-Multicast-DistributionEnumerated922MBMS-HC-IndicatorEnumerated923MBMS-Access-IndicatorEnumeratedNote: The AVP codes from 924 to 999 are reserved for TS 29.0611000Bearer-UsageEnumerated				29.061 [13]
914MBMS-Counting-InformationEnumerated915MBMS-User-Data-Mode-IndicationEnumerated916MBMS-GGSN-AddressUTF8String917MBMS-GGSN-IPv6-AddressUTF8String918MBMS-BMSC-SSM-IP-AddressUTF8String919MBMS-BMSC-SSM-IPv6-AddressUTF8String920MBMS-Flow-IdentifierOctetString921CN-IP-Multicast-DistributionEnumerated922MBMS-HC-IndicatorEnumerated923MBMS-Access-IndicatorEnumeratedNote: The AVP codes from 924 to 999 are reserved for TS 29.0611000Bearer-UsageEnumerated				
915MBMS-User-Data-Mode-IndicationEnumerated916MBMS-GGSN-AddressUTF8String917MBMS-GGSN-IPv6-AddressUTF8String918MBMS-BMSC-SSM-IP-AddressUTF8String919MBMS-BMSC-SSM-IPv6-AddressUTF8String920MBMS-Flow-IdentifierOctetString921CN-IP-Multicast-DistributionEnumerated922MBMS-HC-IndicatorEnumerated923MBMS-Access-IndicatorEnumeratedNote: The AVP codes from 924 to 999 are reserved for TS 29.0611000Bearer-UsageEnumerated				
916MBMS-GGSN-AddressUTF8String917MBMS-GGSN-IPv6-AddressUTF8String918MBMS-BMSC-SSM-IP-AddressUTF8String919MBMS-BMSC-SSM-IPv6-AddressUTF8String920MBMS-Flow-IdentifierOctetString921CN-IP-Multicast-DistributionEnumerated922MBMS-HC-IndicatorEnumerated923MBMS-Access-IndicatorEnumeratedNote: The AVP codes from 924 to 999 are reserved for TS 29.0611000Bearer-UsageEnumerated				
917MBMS-GGSN-IPv6-AddressUTF8String918MBMS-BMSC-SSM-IP-AddressUTF8String919MBMS-BMSC-SSM-IPv6-AddressUTF8String920MBMS-Flow-IdentifierOctetString921CN-IP-Multicast-DistributionEnumerated922MBMS-HC-IndicatorEnumerated923MBMS-Access-IndicatorEnumeratedNote: The AVP codes from 924 to 999 are reserved for TS 29.0611000Bearer-UsageEnumerated				
918MBMS-BMSC-SSM-IP-AddressUTF8String919MBMS-BMSC-SSM-IPv6-AddressUTF8String920MBMS-Flow-IdentifierOctetString921CN-IP-Multicast-DistributionEnumerated922MBMS-HC-IndicatorEnumerated923MBMS-Access-IndicatorEnumeratedNote: The AVP codes from 924 to 999 are reserved for TS 29.0611000Bearer-UsageEnumerated				
919     MBMS-BMSC-SSM-IPv6-Address     UTF8String       920     MBMS-Flow-Identifier     OctetString       921     CN-IP-Multicast-Distribution     Enumerated       922     MBMS-HC-Indicator     Enumerated       923     MBMS-Access-Indicator     Enumerated       Note: The AVP codes from 924 to 999 are reserved for TS 29.061       1000     Bearer-Usage     Enumerated				
921 CN-IP-Multicast-Distribution     Enumerated       922 MBMS-HC-Indicator     Enumerated       923 MBMS-Access-Indicator     Enumerated       Note: The AVP codes from 924 to 999 are reserved for TS 29.061       1000 Bearer-Usage     Enumerated	919	MBMS-BMSC-SSM-IPv6-Address	UTF8String	
922MBMS-HC-IndicatorEnumerated923MBMS-Access-IndicatorEnumeratedNote: The AVP codes from 924 to 999 are reserved for TS 29.0611000Bearer-UsageEnumerated	920	MBMS-Flow-Identifier		
923     MBMS-Access-Indicator     Enumerated       Note: The AVP codes from 924 to 999 are reserved for TS 29.061       1000     Bearer-Usage     Enumerated			Enumerated	
Note: The AVP codes from 924 to 999 are reserved for TS 29.061  1000 Bearer-Usage Enumerated 29.212 [10]				
1000 Bearer-Usage Enumerated			Enumerated	
[1001 Charging-Rule-Install Grouped Grouped				29.212 [19]
	1001	Charging-Rule-Install	Grouped	[10]

1002 Charging-Rule-Remove	Grouped
1003 Charging-Rule-Definition	Grouped
1004 Charging-Rule-Base-Name	UTF8String
1005 Charging-Rule-Name 1006 Event-Trigger	OctetString
1007 Metering-Method	Enumerated Enumerated
1008 Offline	Enumerated
1009 Online	Enumerated
1010 Precedence	Unsigned32
1011 Reporting-Level	Enumerated
1012 TFT-Filter	IPFilterRule
1013 TFT-Packet-Filter-Information	Grouped
1014 ToS-Traffic-Class	OctetString
1016 QoS-Information	Grouped
1018 Charging-Rule-Report	Grouped
1019 PCC-Rule-Status	Enumerated
1020 Bearer-Identifier	OctetString
1021 Bearer-Operation	Enumerated
1022 Access-Network-Charging-Identifier-Gx	Grouped
1023 Bearer-Control-Mode	Enumerated
1024 Network-Request-Support	Enumerated
1025 Guaranteed-Bitrate-DL	Unsigned32
1026 Guaranteed-Bitrate-UL	Unsigned32
1027 IP-CAN-Type	Enumerated
1028 QoS-Class-Identifier	Enumerated
1029 QoS-Negotiation	Enumerated
1030 QoS-Upgrade	Enumerated
1031 Rule-Failure-Code	Enumerated
1032 RAT-Type	Enumerated
1033 Event-Report-Indication	Grouped
1034 Allocation-Retention-Priority	Grouped
1035 CoA-IP-Address	Address IPFilterRule
1036 Tunnel-Header-Filter 1037 Tunnel-Header-Length	Unsigned32
1037 Tunnel-Information	Grouped
1039 CoA-Information	Grouped
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32
1041 APN-Aggregate-Max-Bitrate-UL	Unsigned32
1042 Revalidation-Time	Time
1043 Rule-Activation-Time	Time
1044 Rule-DeActivation-Time	Time
1045 Session-Release-Cause	Enumerated
1046 Priority-Level	Unsigned32
1047 Pre-emption-Capability	Enumerated
1048 Pre-emption-Vulnerability	Enumerated
1049 Default-EPS-Bearer-QoS	Grouped
1050 AN-GW-Address	Address
1051 QoS-Rule-Install	Grouped
1052 QoS-Rule-Remove	Grouped
1053 QoS-Rule-Definition	Grouped
1054 QoS-Rule-Name	OctetString
1055 QoS-Rule-Report	Grouped
1056 Security-Parameter-Index	OctetString
1057 Flow-Label	OctetString
1058 Flow-Information	Grouped
1059 Packet-Filter-Content	IPFilterRule
1060 Packet-Filter-Identifier	OctetString
1061 Packet-Filter-Information	Grouped
1062 Packet-Filter-Operation	Enumerated
1063 Resource-Allocation-Notification	Enumerated
1064 Session-Linking-Indicator 1065 PDN-Connection-ID	Enumerated OctetString
1066 Monitoring-Key	OctetString
1067 Usage-Monitoring-Information	Grouped
1068 Usage-Monitoring-Information	Enumerated
1000 03age-ivioriitoring-Level	Liiuiiiciateu

1069 Usage-Monitoring-ReportEnumerated1070 Usage-Monitoring-SupportEnumerated1071 CSG-Information-ReportingEnumerated1072 Packet-Filter-UsageEnumerated1073 Flow-DirectionEnumerated	
1071CSG-Information-ReportingEnumerated1072Packet-Filter-UsageEnumerated	
1072 Packet-Filter-Usage Enumerated	
TOVATEROW-DIRECTION   EDUTINEISTED	
1074 QoS-Rule-Base-Name UTF8String	
Note: The AVP codes from 1075 to 1099 are reserved for TS 29.212	
1100 Served-User-Identity Groupe	
1101 VASP-ID UTF8Str	
1102 VAS-ID UTF8String	
1103 Trigger-Event Enumerated	
1104 Sender-Address UTF8String	
1105 Initial-Recipient-Address Grouped	
1106 Result-Recipient-Address Grouped	
1107 Sequence-Number Unsigned32	
1108 Recipient-Address UTF8String	
	29.140 [16]
	29.140 [10]
1111 Delivery-Report Enumerated 1112 Read-Reply Enumerated	
1113 Sender-Visibility Enumerated	
1114 Service-Key UTF8String	
1115 Billing-Information UTF8String	
1116 Status Grouped	
1117 Status-Code UTF8String	
1118 Status-Text UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	
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	00 000 17-
1219 Aux-Applic-Info UTF8String	32.299 [5]
1220 Content-Class Enumerated	
1221 DRM-Content Enumerated	
1222 Read-Reply-Report-Requested Enumerated	
1223 Reply-Applic-ID UTF8String	
1224 File-Repair-Supported Enumerated	
1225 MBMS-User-Service-Type Enumerated	
1226 Unit-Quota-Threshold Unsigned32	
1227 PDP-Address Address	
1228 SGSN-Address Address Address	
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	

1220 LCC Nama String	LITEOCtring	
1238 LCS-Name-String	UTF8String	
1239 LCS-Requestor-Id	Grouped	
1240 LCS-Requestor-Id-String	UTF8String	
1241 LCS-Client-Type	Enumerated	
1242 Location-Estimate	OctetString	
1243 Location-Estimate-Type	Enumerated	
1244 Location-Type	Grouped	
1245 Positioning-Data	UTF8String	
1246 WLAN-Session-Id	UTF8String	
1247 PDP-Context-Type	Enumerated	
1248 MMBox-Storage-Requested	Enumerated	
1249 Service-Specific-Info	Grouped	
1250 Called-Asserted-Identity	UTF8String	
1251 Requested-Party-Address	UTF8String	
1252 PoC-User-Role	Grouped	
1253 PoC-User-Role-IDs	UTF8String	
1254 PoC-User-Role-info-Units	Enumerated	
1255 Talk-Burst-Exchange	Grouped	
1256 Service-Generic-Information	Grouped	
1257 Service-Specific-Type	Unsigned32	
1258 Event-Charging-TimeStamp	Time	
1259 Participant-Access-Priority	Enumerated	
1260 Participant-Group	Grouped	
1261 PoC-Change-Conditions	Enumerated	
1262 PoC-Change-Time	Time	
1263 Access-Network-Information	OctetString	
1264 Trigger	Grouped	
1265 Base-Time-Interval	Unsigned32	
1266 Envelope	Grouped	
1267 Envelope-End-Time	Time	
1268 Envelope-Reporting	Enumerated	
1269 Envelope-Start-Time	Time	
1270 Time-Quota-Mechanism	Grouped	
1271 Time-Quota-Type	Enumerated	
1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps	Grouped	
1274 SDP-Offer-Timestamp	Time	
1275 SDP-Answer-Timestamp	Time	
1276 AF-Correlation-Information	Grouped	
1277 PoC-Session-Initiation-type	Enumerated	
1277 Offline-Charging	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts		
	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299		
1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	
1403 Software-Version	UTF8String	
1404 QoS-Subscribed	UTF8String	
1405 ULR-Flags	Unsigned32	
1406 ULA-Flags	Unsigned32	29.272 [21]
1407 Visited PLMN Id	OctetString	
1408 Requested-EUTRAN-Authentication-Info	Grouped	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped	
1410 Number-Of-Requested-Vectors	Unsigned32	
1411 Re-Synchronization-Info	OctetString	
1412 Immediate-Response-Preferred	Unsigned32	
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1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector 1416 GERAN-Vector	Grouped Grouped	
1417 Network-Access-Mode	Enumerated	
1418 HPLMN-ODB	Enumerated	
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
1426 Access-Restriction-Data	UTF8String	
1427 APN-OI-Replacement	UTF8String	
1428 All-APN-Configurations-Included-Indicator	Enumerated	
1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile	Grouped	
1432 VPLMN-Dynamic-Address-Allowed	Enumerated	
1433 STN-SR	OctetString	
1434 Alert-Reason	Enumerated	
1435 AMBR 1436 CSG-Subscription-Data	Grouped	
1437 CSG-Id	Grouped	
1438 PDN-GW-Allocation-Type	Unsigned32 Enumerated	
1439 Expiration-Date	Time	
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32	
1441 IDA-Flags	Unsigned32	
1442 PUA-Flags	Unsigned32	
1443 NOR-Flags	Unsigned32	
1444 User-Id	UTF8String	
1445 Equipment-Status	Enumerated	
1446 Regional-Subscription-Zone-Code	OctetString	
1447 RAND	OctetString	
1448 XRES	OctetString	
1449 AUTN	OctetString	
1450 KASME	OctetString	
1451 Reserved	-	
1452 Trace-Collection-Entity	Address	
1453 Kc 1454 SRES	OctetString	
1455 Reserved	OctetString	
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-ld	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	Grouped	

1478   Kottlication-To-UE-User	1478 Notification-To-UE-User	Enumerated	
1481 GMLC.Restriction			
1481 GMLC-Restriction			
1483   Service Type		·	
1483   Service-Type    Grouped   1484   Service TypeIdentity   Unsigned32   1485   MO-LR   Grouped   1486   Telses ervice-List   Grouped   1487   TS-Code   Enumerated   1488   Cell-Barring-Infor-List   Grouped   1489   Cell-Barring-Infor-List   Grouped   Cell-Barring-Infor-List   Grouped   Cell-Barring-Infor-List   Cell-Barring-Infor-List   Enumerated   1492   IMS-Voice-Over-PS-Sessions-Supported   Enumerated   1492   IMS-Voice-Over-PS-Sessions   Enumerated   1492   IMS-Cell-Barring-Information   Grouped   1494   Last-Ligh-Activity-Time   Time   1494   Last-Ligh-Activity-Time   Grouped   1494   Last-Ligh-Activity-Time   Grouped   1495   Important   1495   Important   1496   EPS-Location-Information   Grouped   1498   Important   1495   Important   1496   EPS-Location-Information   Grouped   1499   Important   1498   Important   1495   Important   1496   Important   1			
1495   MO-Location-Information   Unsigned32   1495   MO-Location-Information   Unsigned3   1495   MO-Location-Information   Unsigned3   1497   IS-Code			
1485   Telsearvice-List   Grouped			
1496   Feleservice-List			
1487   TS-Code			
1498   SGN-Number			
1499   ISCSN-Number			
1490   IDR-Flags			
1491   ICS-Indicator			
1492   IMS-Voice-Over-PS-Sessions-Supported		· ·	
1493   Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions			
1494   Last-UE-Activity-Time			
1495 EPS-Loser-State			
1496   EPS-Location-Information   Grouped   1498   SGSN-User-State   Grouped   1498   SGSN-User-State   Grouped   1498   SGSN-User-State   Grouped   1499   User-State   Grouped   1499   User-State   Grouped   1499   User-State   Grouped   1500   Non-3GPP-User-Data   Grouped   1501   Non-3GPP-IP-Access   Enumerated   1502   Non-3GPP-IP-Access   Enumerated   1502   Non-3GPP-IP-Access   Enumerated   1503   AN-Trusted   Enumerated   1504   ANID   UTFBString   1505   MIDD   UTFBString   1505   MIDD   UTFBString   1505   MIP-FA-RK   OctetString   1506   MIP-FA-RK   OctetString   1506   MIP-FA-RK   OctetString   1506   MIP-FA-RK-SPI   Unsigned32   Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273   1600   MME-Location-Information   Grouped   1601   SGSN-Location-Information   Grouped   1601   SGSN-Location-Information   Grouped   1602   E-UTRAN-Cell-Global-Identity   OctetString   1604   Cell-Global-Identity   OctetString   1604   Cell-Global-Identity   OctetString   1604   Cell-Global-Identity   OctetString   1605   Routing-Area-Identity   OctetString   1606   Geographical-Information   OctetString   1608   Geographical-Information   OctetString   1609   Geodetic-Information   OctetString   1610   Ourrent-Location-Retrieved   Enumerated   Enumerated   1611   Age-Of-Location-Information   OctetString   1612   Active-APN   Grouped   1613   SIPTO-Permission   Enumerated   Enumerated   1614   Error-Diagnostic   Enumerated   Enumerated   1615   UE-SRVCC-Capability   Enumerated   Enumerated   1616   MPS-Priority   Unsigned32   1620   Ext-PDP-Type   OctetString   1622   Ext-PDP-Type   OctetString   1622   Ext-PDP-Type   OctetString   1623   Logoph-Information   Grouped   1624   Area-Scope   Grouped   1625   Usi-Of-Measurements   Unsigned32   1626   Report-Interval   Enumerated   1628   Report-Interval   Enumerated   1628   Event-ThresholdRSRP   Unsigned32   1630   Unsigned32   1631   Logoph-Interval   Enumerated   1638   Logoph-Interval   Enumerated   1638   Logoph-Interval   Enumerated   1638   Logoph-Inte			
1497   MME-User-State   Grouped   1498   SGSN-User-State   Enumerated   1499   User-State   Enumerated   1500   Non-3GPP-User-Data   Grouped   1501   Non-3GPP-User-Data   Grouped   1501   Non-3GPP-IP-Access   Enumerated   1502   Non-3GPP-IP-Access   Enumerated   1503   AN-Trusted   Enumerated   1504   ANID   UTF8String   1505   Trace-Info   Grouped   1506   MIP-FA-RK   OctetString   1506   Trace-Info   Grouped   1506   MIP-FA-RK   OctetString   1507   MIP-FA-RK   OctetString   1507   MIP-FA-RK   OctetString   1507   MIP-FA-RK   OctetString   1601   SGSN-Location-Information   Grouped   1602   E-UTRAN-Cell-Global-Identity   OctetString   1603   Tracking-Area-Identity   OctetString   1604   Cell-Global-Identity   OctetString   1606   Location-Area-Identity   OctetString   1606   Cell-Global-Identity   OctetString   1606   Goographical-Information   OctetString   1606   Goographical-Information   OctetString   1608   Geographical-Information   OctetString   1609   Geodetic-Information   OctetString   1610   Gurnent-Location-Retrieved   Enumerated   1611   Age-Of-Location-Information   Unsigned32   1612   Active-APN   Grouped   1613   SIPTO-Permission   Enumerated   1614   Error-Diagnostic   Enumerated   1615   UE-SRVCC-Capability   Enumerated   1616   MES-Priority   Unsigned32   1620   Ext-PDP-Type   OctetString   Grouped   1616   MES-Priority   Unsigned32   1620   Ext-PDP-Type   OctetString   Grouped   1621   Ext-PDP-Type   OctetString   Grouped   1622   Ext-PDP-Type   OctetString   Grouped   1623   Job-Type   Enumerated   1628   Report-Amount   Enumerated   1628   Enumerated   1			
1498   User-State			
1499   User-State			
1500   Non-3GPP-User-Data   Grouped			
1501   Non-3GPP-IP-Access	1499 User-State	Enumerated	
1501   Non-3GPP-IP-Access	AFOO New CORP Hear Det		
1502   Non-3CPP-IP-Access-APN			
1503   AN-Trusted			
1505   Trace-Info			
1505   Trace-Info			29 273 [20]
1506 MIP-FA-RK			20.270 [20]
Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273			
Note: The AVP codes from 1508 to 1599 are reserved for TS 29.273			
1600   MME-Location-Information   Grouped   1601   SGSN-Location-Information   Grouped   1602   E-UTRAN-Cell-Global-Identity   OctetString   1603   Tracking-Area-Identity   OctetString   1604   Cell-Global-Identity   OctetString   1605   Routing-Area-Identity   OctetString   1606   Location-Area-Identity   OctetString   1607   Service-Area-Identity   OctetString   1608   Geographical-Information   OctetString   1609   Geodetic-Information   OctetString   1609   Geodetic-Information   OctetString   1610   Current-Location-Retrieved   Enumerated   1611   Age-Of-Location-Information   Unsigned32   1612   Active-APN   Grouped   1613   SIPTO-Permission   Enumerated   1614   Error-Diagnostic   Enumerated   1615   UE-SRVCC-Capability   Unsigned32   1616   MPS-Priority   Unsigned32   1617   VPLMN-LiPA-Allowed   Enumerated   1618   LiPA-Permission   Enumerated   1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32   1620   Ext-PDP-Type   OctetString   1621   Ext-PDP-Address   Address   1622   MDT-Configuration   Grouped   1623   Job-Type   Enumerated   1624   Area-Scope   Grouped   1625   List-Of-Measurements   Unsigned32   1626   Report-Interval   Enumerated   1628   Report-Amount   Enumerated   1629   Event-ThresholdRSRQ   Unsigned32   1631   Logging-Interval   Enumerated   1632   Logging-Interval   Enumerated   1633   Logging-Interval   Enumerated   1634   Logging-Interval   Enumerated   1635   Logging-Interval   Enumerated   1636   Logging-Interval   Enumerated   1637   Logging-Interval   Enumerated   1638   Logging-Interval   Enumerated   1639   Logging	· · · · ·	Unsigned32	
1601   SGSN-Location-Information   Grouped   1602   E-UTRAN-Cell-Global-Identity   OctetString   1603   Tracking-Area-Identity   OctetString   1604   Cell-Global-Identity   OctetString   1605   Routing-Area-Identity   OctetString   1606   Cell-Global-Identity   OctetString   1606   Location-Area-Identity   OctetString   1607   Service-Area-Identity   OctetString   1608   Geographical-Information   OctetString   1609   Geodetic-Information   OctetString   1609   Geodetic-Information   OctetString   1610   Current-Location-Retrieved   Enumerated   1611   Age-Of-Location-Information   Unsigned32   1612   Active-APN   Grouped   1613   SIPTO-Permission   Enumerated   1614   Error-Diagnostic   Enumerated   1615   UE-SRVCC-Capability   Enumerated   1616   MPS-Priority   Unsigned32   1617   VPLMN-LIPA-Allowed   Enumerated   1618   LIPA-Permission   Enumerated   1618   LIPA-Permission   Enumerated   1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32   1620   Ext-PDP-Type   OctetString   1621   Ext-PDP-Address   Address   Address   Address   Address   Grouped   1625   List-Of-Measurements   Unsigned32   1626   Report-Interval   Enumerated   1628   Report-Interval   Enumerated   1629   Event-ThresholdRSRQ   Unsigned32   1631   Logging-Interval   Enumerated   1631   Logging-Interval   Enumer			
1602   E-UTRAN-Cell-Global-Identity   OctetString     1603   Tracking-Area-Identity   OctetString     1604   Cell-Global-Identity   OctetString     1605   Routing-Area-Identity   OctetString     1606   Location-Area-Identity   OctetString     1607   Service-Area-Identity   OctetString     1608   Geographical-Information   OctetString     1609   Geodetic-Information   OctetString     1610   Current-Location-Retrieved   Enumerated     1611   Age-Of-Location-Information   Unsigned32     1612   Active-APN   Grouped     1613   SIPTO-Permission   Enumerated     1614   Error-Diagnostic   Enumerated     1615   UE-SRVCC-Capability   Unsigned32     1616   MPS-Priority   Unsigned32     1617   VPLMN-LIPA-Allowed   Enumerated     1618   LIPA-Permission   Enumerated     1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32     1620   Ext-PDP-Type   OctetString     1621   Ext-PDP-Address   Address     1622   MDT-Configuration   Grouped     1623   Job-Type   Enumerated     1624   Area-Scope   Grouped     1625   List-Of-Measurements   Unsigned32     1626   Report-Interval   Enumerated     1628   Report-Amount   Enumerated     1629   Event-ThresholdRSRP   Unsigned32     1630   Event-ThresholdRSRQ   Unsigned32     1631   Logging-Interval   Enumerated     1632   Event-ThresholdRSRQ   Unsigned32     1631   Logging-Interval   Enumerated			
Tacking-Area-Identity			
1604   Cell-Global-Identity   OctetString   1605   Routing-Area-Identity   OctetString   1606   Location-Area-Identity   OctetString   1607   Service-Area-Identity   OctetString   1608   Geographical-Information   OctetString   1608   Geographical-Information   OctetString   1609   Geodetic-Information   OctetString   1610   Current-Location-Retrieved   Enumerated   1611   Age-Of-Location-Information   Unsigned32   1612   Active-APN   Grouped   1613   SIPTO-Permission   Enumerated   1614   Error-Diagnostic   Enumerated   1615   UE-SRVCC-Capability   Enumerated   1616   MPS-Priority   Unsigned32   1617   VPLMN-LIPA-Allowed   Enumerated   1618   LIPA-Permission   Enumerated   1618   LIPA-Permission   Enumerated   1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32   1620   Ext-PDP-Type   OctetString   1621   Ext-PDP-Address   Address   Addres	1602 E-UTRAN-Cell-Global-Identity	OctetString	
1605   Routing-Area-Identity   OctetString   1606   Location-Area-Identity   OctetString   1607   Service-Area-Identity   OctetString   1608   Geographical-Information   OctetString   1609   Geodetic-Information   OctetString   1610   Current-Location-Retrieved   Enumerated   Enumerated   1611   Age-Of-Location-Information   Unsigned32   1612   Active-APN   Grouped   1613   SiPTO-Permission   Enumerated   1614   Error-Diagnostic   Enumerated   1615   UE-SRVCC-Capability   Enumerated   1616   MPS-Priority   Unsigned32   1617   VPLMN-LIPA-Allowed   Enumerated   1618   LiPA-Permission   Enumerated   1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32   1620   Ext-PDP-Type   OctetString   1621   Ext-PDP-Address   Address   Address   1622   MDT-Configuration   Grouped   1623   Job-Type   Enumerated   1624   Area-Scope   Grouped   1625   List-Of-Measurements   Unsigned32   1626   Report-Interval   Enumerated   1628   Report-Amount   Enumerated   1628   Report-Amount   Enumerated   1629   Event-ThresholdRSRP   Unsigned32   1630   Event-ThresholdRSRQ   Unsigned32   1631   Logging-Interval   Enumerated   1630   Event-ThresholdRSRQ   Unsigned32   1631   Logging-Interval   Enumerated   Enumerated   1630   Event-ThresholdRSRQ   Unsigned32   1631   Logging-Interval   Enumerated   Enumerated   1630   Event-ThresholdRSRQ   Unsigned32   1631   Logging-Interval   Enumerated   Enumerated   Enumerated   1630   Event-ThresholdRSRQ   Unsigned32   1631   Logging-Interval   Enumerated   Enumerated   1630   Event-ThresholdRSRQ   Enumerated   Enum	1603 Tracking-Area-Identity	OctetString	
1606   Location-Area-Identity   OctetString   1607   Service-Area-Identity   OctetString   1608   Geographical-Information   OctetString   1609   Geodetic-Information   OctetString   1610   Current-Location-Retrieved   Enumerated   1611   Age-Of-Location-Information   Unsigned32   1612   Active-APN   Grouped   1613   SiPTO-Permission   Enumerated   1614   Error-Diagnostic   Enumerated   1615   UE-SRVCC-Capability   Unsigned32   1617   VPLMN-LIPA-Allowed   Enumerated   1618   LIPA-Permission   Enumerated   1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32   1620   Ext-PDP-Type   OctetString   1621   Ext-PDP-Address   Address   1622   MDT-Configuration   Grouped   1623   Job-Type   Enumerated   1624   Area-Scope   Grouped   1625   List-Of-Measurements   Unsigned32   1626   Report-Interval   Enumerated   1628   Report-Amount   Enumerated   1629   Event-ThresholdRSRP   Unsigned32   1630   Event-ThresholdRSRQ   Unsigned32   1631   Logging-Interval   Enumerated   Enumerated   Enumerated   1630   Event-ThresholdRSRQ   Unsigned32   1631   Logging-Interval   Enumerated   Enumerated   Enumerated   1630   Event-ThresholdRSRQ   Unsigned32   1631   Logging-Interval   Enumerated		OctetString	
1606   Location-Area-Identity   OctetString   1607   Service-Area-Identity   OctetString   1608   Geographical-Information   OctetString   1609   Geodetic-Information   OctetString   1610   Current-Location-Retrieved   Enumerated   1611   Age-Of-Location-Information   Unsigned32   1612   Active-APN   Grouped   1613   SiPTO-Permission   Enumerated   1614   Error-Diagnostic   Enumerated   1615   UE-SRVCC-Capability   Unsigned32   1617   VPLMN-LIPA-Allowed   Enumerated   1618   LIPA-Permission   Enumerated   1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32   1620   Ext-PDP-Type   OctetString   1621   Ext-PDP-Address   Address   1622   MDT-Configuration   Grouped   1623   Job-Type   Enumerated   1624   Area-Scope   Grouped   1625   List-Of-Measurements   Unsigned32   1626   Report-Interval   Enumerated   1628   Report-Amount   Enumerated   1629   Event-ThresholdRSRP   Unsigned32   1630   Event-ThresholdRSRQ   Unsigned32   1631   Logging-Interval   Enumerated   Enumerated   Enumerated   1630   Event-ThresholdRSRQ   Unsigned32   1631   Logging-Interval   Enumerated   Enumerated   Enumerated   1630   Event-ThresholdRSRQ   Unsigned32   1631   Logging-Interval   Enumerated	1605 Routing-Area-Identity	OctetString	
1608   Geographical-Information   OctetString     1609   Geodetic-Information   OctetString     1610   Current-Location-Retrieved   Enumerated     1611   Age-Of-Location-Information   Unsigned32     1612   Active-APN   Grouped     1613   SIPTO-Permission   Enumerated     1614   Error-Diagnostic   Enumerated     1615   UE-SRVCC-Capability   Enumerated     1616   MPS-Priority   Unsigned32     1617   VPLMN-LIPA-Allowed   Enumerated     1618   LIPA-Permission   Enumerated     1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32     1620   Ext-PDP-Type   OctetString     1621   Ext-PDP-Address   Address     1622   MDT-Configuration   Grouped     1623   Job-Type   Enumerated     1624   Area-Scope   Grouped     1625   List-Of-Measurements   Unsigned32     1626   Report-Interval   Enumerated     1627   Report-Interval   Enumerated     1628   Report-Amount   Enumerated     1629   Event-ThresholdRSRQ   Unsigned32     1630   Event-ThresholdRSRQ   Unsigned32     1631   Logging-Interval   Enumerated     1632   Logging-Interval   Enumerated     1633   Logging-Interval   Enumerated     1634   Logging-Interval   Enumerated     1635   Logging-Interval   Enumerated     1636   Logging-Interval   Enumerated     1637   Logging-Interval   Enumerated     1638   Logging-Interval   Enumerated     1639   Logging-Interval   Enumerated     1630   Loggin		OctetString	
1609   Geodetic-Information   OctetString     1610   Current-Location-Retrieved   Enumerated     1611   Age-Of-Location-Information   Unsigned32     1612   Active-APN   Grouped     1613   SIPTO-Permission   Enumerated     1614   Error-Diagnostic   Enumerated     1615   UE-SRVCC-Capability   Enumerated     1616   MPS-Priority   Unsigned32     1617   VPLMN-LIPA-Allowed   Enumerated     1618   LIPA-Permission   Enumerated     1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32     1620   Ext-PDP-Type   OctetString     1621   Ext-PDP-Address   Address     1622   MDT-Configuration   Grouped     1623   Job-Type   Enumerated     1624   Area-Scope   Grouped     1625   List-Of-Measurements   Unsigned32     1626   Report-Interval   Enumerated     1628   Report-Amount   Enumerated     1629   Event-ThresholdRSRP   Unsigned32     1630   Event-ThresholdRSRQ   Unsigned32     1631   Logging-Interval   Enumerated     1631   Enumerated   Enumerated     1632   Event-ThresholdRSRQ   Unsigned32     1631   Logging-Interval   Enumerated     1631   Enumerated   Enumerated     1632   Event-ThresholdRSRQ   Unsigned32     1631   Logging-Interval   Enumerated     1631   Enumerated   Enumerated     1632   Enumerated   Enumerated   Enumerated     1633   Event-ThresholdRSRQ   Unsigned32     1631   Logging-Interval   Enumerated     1631   Enumerated   Enumerated     1631   Enumerated   Enumerated     1631   Enumerated   Enumerated   Enumerated     1631   Enumerated   Enumerated   Enumerated     1631   Enumerated   Enumerated   Enumerated     1631   Enumerated   Enumerated   Enumerated   Enumerated     1632   Event-ThresholdRSRQ   Enumerated   Enumerated   Enumerated	1607 Service-Area-Identity	OctetString	
1610   Current-Location-Retrieved   Enumerated     1611   Age-Of-Location-Information   Unsigned32     1612   Active-APN   Grouped     1613   SIPTO-Permission   Enumerated     1614   Error-Diagnostic   Enumerated     1615   UE-SRVCC-Capability   Enumerated     1616   MPS-Priority   Unsigned32     1617   VPLMN-LIPA-Allowed   Enumerated     1618   LIPA-Permission   Enumerated     1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32     1620   Ext-PDP-Type   OcteString     1621   Ext-PDP-Address   Address     1622   Ext-PDP-Address   Address     1623   Job-Type   Enumerated     1623   Job-Type   Enumerated     1624   Area-Scope   Grouped     1625   List-Of-Measurements   Unsigned32     1626   Reporting-Trigger   Unsigned32     1627   Report-Interval   Enumerated     1628   Report-Amount   Enumerated     1629   Event-ThresholdRSRP   Unsigned32     1630   Event-ThresholdRSRQ   Unsigned32     1631   Logging-Interval   Enumerated     1631   Logging-Interval   Enumerated     1632   Enumerated   Enumerated     1633   Logging-Interval   Enumerated     1644   Logging-Interval   Enumerated     1655   List-Of-Measurements   Unsigned32     1656   Event-ThresholdRSRQ   Unsigned32     1657   Logging-Interval   Enumerated     1658   Logging-Interval   Enumerated     1659   Event-ThresholdRSRQ   Unsigned32     1650   Event-ThresholdRSRQ   Unsigned32     1651   Logging-Interval   Enumerated     1652   List-Of-Measurements   Unsigned32     1653   Logging-Interval   Enumerated     1654   Logging-Interval   Enumerated     1655   List-Of-Measurements   Unsigned32     1650   Event-ThresholdRSRQ   Unsigned32     1651   Logging-Interval   Enumerated     1652   List-Of-Measurements   Unsigned32     1653   Logging-Interval   Enumerated     1654   Logging-Interval   Enumerated     1655   List-Of-Measurements   Unsigned32     1656   Logging-Interval   Enumerated     1657   Logging-Interval   Enumerated     1658   Logging-Interval   Enumerated     1659   Logging-Interval   Enumerated     1650   Logging-Interval   Enumerated     1650   Log	1608 Geographical-Information	OctetString	
1610   Current-Location-Retrieved   Enumerated     1611   Age-Of-Location-Information   Unsigned32     1612   Active-APN   Grouped     1613   SIPTO-Permission   Enumerated     1614   Error-Diagnostic   Enumerated     1615   UE-SRVCC-Capability   Enumerated     1616   MPS-Priority   Unsigned32     1617   VPLMN-LIPA-Allowed   Enumerated     1618   LIPA-Permission   Enumerated     1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32     1620   Ext-PDP-Type   OcteString     1621   Ext-PDP-Address   Address     1622   Ext-PDP-Address   Address     1623   Job-Type   Enumerated     1623   Job-Type   Enumerated     1624   Area-Scope   Grouped     1625   List-Of-Measurements   Unsigned32     1626   Reporting-Trigger   Unsigned32     1627   Report-Interval   Enumerated     1628   Report-Amount   Enumerated     1629   Event-ThresholdRSRP   Unsigned32     1630   Event-ThresholdRSRQ   Unsigned32     1631   Logging-Interval   Enumerated     1631   Logging-Interval   Enumerated     1632   Enumerated   Enumerated     1633   Logging-Interval   Enumerated     1644   Logging-Interval   Enumerated     1655   List-Of-Measurements   Unsigned32     1656   Event-ThresholdRSRQ   Unsigned32     1657   Logging-Interval   Enumerated     1658   Logging-Interval   Enumerated     1659   Event-ThresholdRSRQ   Unsigned32     1650   Event-ThresholdRSRQ   Unsigned32     1651   Logging-Interval   Enumerated     1652   List-Of-Measurements   Unsigned32     1653   Logging-Interval   Enumerated     1654   Logging-Interval   Enumerated     1655   List-Of-Measurements   Unsigned32     1650   Event-ThresholdRSRQ   Unsigned32     1651   Logging-Interval   Enumerated     1652   List-Of-Measurements   Unsigned32     1653   Logging-Interval   Enumerated     1654   Logging-Interval   Enumerated     1655   List-Of-Measurements   Unsigned32     1656   Logging-Interval   Enumerated     1657   Logging-Interval   Enumerated     1658   Logging-Interval   Enumerated     1659   Logging-Interval   Enumerated     1650   Logging-Interval   Enumerated     1650   Log	1609 Geodetic-Information	OctetString	
1611Age-Of-Location-InformationUnsigned321612Active-APNGrouped1613SIPTO-PermissionEnumerated1614Error-DiagnosticEnumerated1615UE-SRVCC-CapabilityEnumerated1616MPS-PriorityUnsigned321617VPLMN-LIPA-AllowedEnumerated1618LIPA-PermissionEnumerated1619Subscribed-Periodic-RAU-TAU-TimerUnsigned321620Ext-PDP-TypeOctetString1621Ext-PDP-AddressAddress1622MDT-ConfigurationGrouped1623Job-TypeEnumerated1624Area-ScopeGrouped1625List-Of-MeasurementsUnsigned321626Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated			
1612   Active-APN   Grouped     1613   SIPTO-Permission   Enumerated     1614   Error-Diagnostic   Enumerated     1615   UE-SRVCC-Capability   Enumerated     1616   MPS-Priority   Unsigned32     1617   VPLMN-LIPA-Allowed   Enumerated     1618   LIPA-Permission   Enumerated     1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32     1620   Ext-PDP-Type   OctetString     1621   Ext-PDP-Address   Address     1622   MDT-Configuration   Grouped     1623   Job-Type   Enumerated     1624   Area-Scope   Grouped     1625   List-Of-Measurements   Unsigned32     1626   Report-Interval   Enumerated     1629   Event-ThresholdRSRP   Unsigned32     1630   Event-ThresholdRSRQ   Unsigned32     1631   Logging-Interval   Enumerated     1631   Logging-Interval   Enumerated     1632   Enumerated   Enumerated     1633   Logging-Interval   Enumerated     1634   Logging-Interval   Enumerated     1645   Enumerated   Enumerated     1658   Enumerated   Enumerated     1659   Event-ThresholdRSRQ   Unsigned32     1651   Logging-Interval   Enumerated     1652   Enumerated   Enumerated     1653   Logging-Interval   Enumerated     1654   Enumerated   Enumerated     1655   Enumerated   Enumerated     1656   Enumerated   Enumerated     1657   Enumerated   Enumerated     1658   Enumerated   Enumerated     1659   Enumerated   Enumerated     1650   Enumerated   Enumerated     1651   Enumerated   Enumerated     1652   Enumerated   Enumerated     1653   Enumerated   Enumerated     1654   Enumerated   Enumerated     1655   Enumerated   Enumerated     1656   Enumerated   Enumerated     1657   Enumerated   Enumerated     1658   Enumerated   Enumerated     1658   Enumerated   Enumerated     1658   Enumerated   Enumerated     1659   Enumerated   Enumerated     1650   Enumerate			
1613 SIPTO-PermissionEnumerated1614 Error-DiagnosticEnumerated1615 UE-SRVCC-CapabilityEnumerated1616 MPS-PriorityUnsigned321617 VPLMN-LIPA-AllowedEnumerated1618 LIPA-PermissionEnumerated1619 Subscribed-Periodic-RAU-TAU-TimerUnsigned321620 Ext-PDP-TypeOctetString1621 Ext-PDP-AddressAddress1622 MDT-ConfigurationGrouped1623 Job-TypeEnumerated1624 Area-ScopeGrouped1625 List-Of-MeasurementsUnsigned321626 Reporting-TriggerUnsigned321627 Report-IntervalEnumerated1628 Report-AmountEnumerated1629 Event-ThresholdRSRPUnsigned321630 Event-ThresholdRSRQUnsigned321631 Logging-IntervalEnumerated			
1614Error-DiagnosticEnumerated1615UE-SRVCC-CapabilityEnumerated1616MPS-PriorityUnsigned321617VPLMN-LIPA-AllowedEnumerated1618LIPA-PermissionEnumerated1619Subscribed-Periodic-RAU-TAU-TimerUnsigned321620Ext-PDP-TypeOctetString1621Ext-PDP-AddressAddress1622MDT-ConfigurationGrouped1623Job-TypeEnumerated1624Area-ScopeGrouped1625List-Of-MeasurementsUnsigned321626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated			
1615 UE-SRVCC-CapabilityEnumerated1616 MPS-PriorityUnsigned321617 VPLMN-LIPA-AllowedEnumerated1618 LIPA-PermissionEnumerated1619 Subscribed-Periodic-RAU-TAU-TimerUnsigned321620 Ext-PDP-TypeOctetString1621 Ext-PDP-AddressAddress1622 MDT-ConfigurationGrouped1623 Job-TypeEnumerated1624 Area-ScopeGrouped1625 List-Of-MeasurementsUnsigned321626 Reporting-TriggerUnsigned321627 Report-IntervalEnumerated1628 Report-AmountEnumerated1629 Event-ThresholdRSRPUnsigned321630 Event-ThresholdRSRQUnsigned321631 Logging-IntervalEnumerated			
1616 MPS-PriorityUnsigned321617 VPLMN-LIPA-AllowedEnumerated1618 LIPA-PermissionEnumerated1619 Subscribed-Periodic-RAU-TAU-TimerUnsigned321620 Ext-PDP-TypeOctetString1621 Ext-PDP-AddressAddress1622 MDT-ConfigurationGrouped1623 Job-TypeEnumerated1624 Area-ScopeGrouped1625 List-Of-MeasurementsUnsigned321626 Reporting-TriggerUnsigned321627 Report-IntervalEnumerated1628 Report-AmountEnumerated1629 Event-ThresholdRSRPUnsigned321630 Event-ThresholdRSRQUnsigned321631 Logging-IntervalEnumerated	1615 UE-SRVCC-Capability		
1617VPLMN-LIPA-AllowedEnumerated1618LIPA-PermissionEnumerated1619Subscribed-Periodic-RAU-TAU-TimerUnsigned321620Ext-PDP-TypeOctetString1621Ext-PDP-AddressAddress1622MDT-ConfigurationGrouped1623Job-TypeEnumerated1624Area-ScopeGrouped1625List-Of-MeasurementsUnsigned321626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated			29.272 [21]
1618LIPA-PermissionEnumerated1619Subscribed-Periodic-RAU-TAU-TimerUnsigned321620Ext-PDP-TypeOctetString1621Ext-PDP-AddressAddress1622MDT-ConfigurationGrouped1623Job-TypeEnumerated1624Area-ScopeGrouped1625List-Of-MeasurementsUnsigned321626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated		· ·	
1619Subscribed-Periodic-RAU-TAU-TimerUnsigned321620Ext-PDP-TypeOctetString1621Ext-PDP-AddressAddress1622MDT-ConfigurationGrouped1623Job-TypeEnumerated1624Area-ScopeGrouped1625List-Of-MeasurementsUnsigned321626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated			
1620Ext-PDP-TypeOctetString1621Ext-PDP-AddressAddress1622MDT-ConfigurationGrouped1623Job-TypeEnumerated1624Area-ScopeGrouped1625List-Of-MeasurementsUnsigned321626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated			
1621Ext-PDP-AddressAddress1622MDT-ConfigurationGrouped1623Job-TypeEnumerated1624Area-ScopeGrouped1625List-Of-MeasurementsUnsigned321626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated			
1622MDT-ConfigurationGrouped1623Job-TypeEnumerated1624Area-ScopeGrouped1625List-Of-MeasurementsUnsigned321626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated			
1623 Job-TypeEnumerated1624 Area-ScopeGrouped1625 List-Of-MeasurementsUnsigned321626 Reporting-TriggerUnsigned321627 Report-IntervalEnumerated1628 Report-AmountEnumerated1629 Event-ThresholdRSRPUnsigned321630 Event-ThresholdRSRQUnsigned321631 Logging-IntervalEnumerated			
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1625List-Of-MeasurementsUnsigned321626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated			
1626Reporting-TriggerUnsigned321627Report-IntervalEnumerated1628Report-AmountEnumerated1629Event-ThresholdRSRPUnsigned321630Event-ThresholdRSRQUnsigned321631Logging-IntervalEnumerated			
1627 Report-IntervalEnumerated1628 Report-AmountEnumerated1629 Event-ThresholdRSRPUnsigned321630 Event-ThresholdRSRQUnsigned321631 Logging-IntervalEnumerated			
1628 Report-AmountEnumerated1629 Event-ThresholdRSRPUnsigned321630 Event-ThresholdRSRQUnsigned321631 Logging-IntervalEnumerated		<u> </u>	
1629 Event-ThresholdRSRPUnsigned321630 Event-ThresholdRSRQUnsigned321631 Logging-IntervalEnumerated			
1630 Event-ThresholdRSRQUnsigned321631 Logging-IntervalEnumerated			
1631 Logging-Interval Enumerated			
1632 Logging-Duration Enumerated			
	1632 Logging-Duration	Enumerated	

Insignation	1633 Relay-Node-Indicator	Enumerated	
1635   DIVR-Flags			
Note: The AVP codes from 1635 to 1699 are reserved for TS 29.272.   2000 SMS-Information   Grouped			
2000   SMS-Information   Grouped		Offsigned32	
2002   Destination-Interface   Grouped   2003   Interface-Ird   UTF8String   2004   Interface-Port   UTF8String   2006   Interface-Port   UTF8String   2006   Interface-Type   Enumerated   2007   StM-Message-Type   Enumerated   2008   Originating-SCCP-Address   Address   2018   Originating-SCCP-Address   Address   2018   Originating-SCCP-Address   Address   2018   Repiplent-SCCP-Address   Address   2011   Repip-Psh-Requested   Enumerated   2012   SM-Discharge-Time   Time   2013   SM-Protocol-ID   OctetString   2014   SM-Status   OctetString   2016   SM-Status   OctetString   2017   SMS-C-Address   Address   2018   Client-Address   Address   2018   Client-Othessages-Sent   Unsigned32   2019   Number-of-Messages-Sent   Unsigned32   2021   Remaining-Balance   Grouped   2022   Return-Information   OctetString   2023   Carrier-Select-Routing-Information   UTF8String   2024   Number-Portability-Routing-Information   UTF8String   2025   POC-Event-Type   Enumerated   2026   Recipient-Info   Grouped   2028   Recipient-Received-Address   Grouped   2029   Recipient-Received-Address   Grouped   2020   Spring-Received-Address   Grouped   2021   Spring-Proper   Unsigned32   2031   Stevice-Type   Unsigned32   2032   Spring-Prope   Unsigned32   2033   Stevice-Type   Unsigned32   2034   Number-O-Diversions   Unsigned32   2035   Spring-Prope   Unsigned32   2036   Spring-Prope   Unsigned32   2037   Origination-Received-Address   Unsigned32   2038   Change-Time   Time   2039   Origination-Diversions   Unsigned32   2031   Stevice-Type   Enumerated   2032   Carrier-Tail-Prope   Enumerated   2033   Carrier-Tail-Prope   Enumerated   2034   Time-Tist-Usage   Time   2035   Origination-Tail-Prope   Enumerated   2036   December   Color   2037   Potent-Tail-Prope   Enumerated   2		Grouped	
2002   Destination-Interface   Grouped			
2003   Interface-Ird			
2005   Interface-Port			
2005 Interface-Text         UTF8String           2006 Interface-Type         Enumerated           2007 SM-Message-Type         Enumerated           2008 Onginating-SCCP-Address         Address           2010 Recipient-SCCP-Address         Address           2011 Reply-Path-Requested         Enumerated           2012 Recipient-SCCP-Address         Address           2013 SM-Pischarge-Time         Time           2013 SM-Discharge-Time         Time           2015 SM-User-Data-Header         OctetString           2015 SM-User-Data-Header         OctetString           2015 SM-Shode         Enumerated           2015 SM-Shode         Enumerated           2015 SM-User-Data-Header         OctetString           2016 SM-Shode         Enumerated           2017 SMSC-Address         Address           2018 Client-Address         Address           2019 Number-of-Messages-Sent         Unsigned32           2020 Low-Balance-Indication         Enumerated           2021 Remaining-Balance         Grouped           2022 Refund-Information         UTF8String           2023 Recipient-Info         Grouped           2024 Number-Or-Portability-Routing-Information         UTF8String           2027 SM-Service-Type <td< td=""><td></td><td></td><td></td></td<>			
Door   Interface-Type			
2007   SM-Message-Type		·	
2008   Originating-SCCP-Address   Address   Grouped			
2009 Originator-Interface			
2011 Reply-Path-Requested			
Date			
2013 SM-Pictoci-ID			
2014 SM-Protocol-ID			
2014 SM-Status			
2015 SMJ-User-Data-Header			
2016   SMS-Node			
2018   SMSC-Address			
2018   Client-Address   Address   Unsigned32   2020   Low-Balance-Indication   Enumerated   2021   Remaining-Balance   Grouped   2022   Refund-Information   OctetString   2023   Carrier-Select-Routing-Information   UTF8String   2024   Number-Portability-Routing-Information   UTF8String   2025   PoC-Event-Type   Enumerated   2026   Recipient-Info   Grouped   2027   Originator-Received-Address   Grouped   2028   Recipient-Info   Grouped   2029   Recipient-Info   Grouped   2020   SM-Service-Type   Enumerated   2030   MMTel-Information   Grouped   2031   Service-Type   Unsigned32   2032   Service-Mode   Unsigned32   2033   Subscriber-Role   Enumerated   2034   Number-Of-Diversions   Unsigned32   2035   Associated-Party-Address   UTF8String   2036   SDP-Type   Enumerated   2037   Change-Condition   Integer32   2038   Change-Time   Time   2039   Diagnostics   Integer32   2040   Service-Data-Container   Grouped   2041   Statt-Time   Time   2042   Stipt-Time   Time   2043   Time-Irist-Usage   Time   2044   Time-Last-Usage   Time   2045   Time-Usage   Unsigned32   2046   Traffic-Data-Volumes   Grouped   2047   Serving-Node-Type   Enumerated   2048   Supplementary-Service   Grouped   2049   Participant-Action-Type   Enumerated   2050   Dyn-Onnection-Id   Enumerated   2051   Dynamic-Address-Flag   Enumerated   2052   AcC-Uniformation   Grouped   2053   AcC-Request-Type   Enumerated   2054   AcC-Information   Grouped   2055   AcC-Request-Type   Enumerated   2056   Current-Tariff   Grouped   2057   Grouped   2058   Sale-Factor   Grouped   2059   Scale-Factor   Grouped   2059   Scale-Factor   Grouped   2059   Scale-Factor   Grouped   2050   Grouped   2059   Scale-Factor   Grouped   2059   Scale-Factor   Grouped   2059   Scale-Factor   Grouped   2050   Grouped   2050   Scale-Factor   Grouped   2050   Grouped			
Number-of-Messages-Sent		1	
2020   Low-Balance-Indication			
Remaining-Balance   Grouped			
2022   Refund-Information			
2023   Carrier-Select-Routing-Information			
2025   PoC-Event-Type			
2026   Recipient-Info   Grouped   2027   Originator-Received-Address   Grouped   2028   Recipient-Received-Address   Grouped   2029   SM-Service-Type   Enumerated   2030   MMTel-Information   Grouped   2031   Service-Type   Unsigned32   2032   Service-Mode   Unsigned32   2033   Subscriber-Role   Unsigned32   2034   Number-Of-Diversions   Unsigned32   2035   Associated-Party-Address   UTF8String   2036   SDP-Type   Enumerated   2037   Change-Condition   Integer32   2038   Change-Time   Time   2039   Diagnostics   Grouped   2040   Service-Data-Container   Grouped   2041   Start-Time   Time   2042   Stop-Time   Time   2043   Time-First-Usage   Time   2044   Time-Last-Usage   Time   2045   Time-Usage   Unsigned32   2046   Traific-Data-Volumes   Grouped   2047   Serving-Node-Type   Enumerated   2048   Supplementary-Service   Grouped   2049   Participant-Action-Type   Enumerated   2050   PDN-Connection-Id   Enumerated   2051   Dynamic-Address-Flag   Enumerated   2052   Accumulated-Cost   Grouped   2053   AoC-Cost-Information   Grouped   2054   Next-Tariff   Grouped   2056   Current-Tariff   Grouped   2057   Grouped   2058   Rate-Element   Grouped   2059   Scale-Factor   Grouped   2050   Scale-Factor   Grouped   2050   Scale-Factor   Grouped   2050   Scale-Factor   Grouped   2051   Scale-Factor		ŭ	
2027   Originator-Received-Address   Grouped   2028   Recipient-Received-Address   Grouped   2029   SM-Service-Type   Enumerated   2030   MMTel-Information   Grouped   2031   Service-Type   Unsigned32   2032   Service-Mode   Unsigned32   2033   Subscriber-Role   Enumerated   2034   Number-Of-Diversions   Unsigned32   2035   Associated-Party-Address   UTF8String   2036   SDP-Type   Enumerated   2037   Change-Condition   Integer32   2038   Change-Time   Time   2039   Diagnostics   Integer32   2040   Service-Data-Container   Grouped   2041   Start-Time   Time   2042   Stop-Time   Time   2043   Time-Last-Usage   Time   2044   Time-Last-Usage   Time   2045   Time-Last-Usage   Time   2046   Traffic-Data-Volumes   Grouped   2047   Serving-Node-Type   Enumerated   2048   Supplementary-Service   Grouped   2049   Participant-Action-Type   Enumerated   2050   PDN-Connection-Id   Enumerated   2051   Dynamic-Address-Flag   Enumerated   2052   Accumulated-Cost   Grouped   2053   AoC-Cost-Information   Grouped   2054   Next-Tariff   Grouped   2056   Current-Tariff   Grouped   2057   Serving-Node-Type   Enumerated   2056   Current-Tariff   Grouped   2057   Next-Tariff   Grouped   2058   Rate-Element   Grouped   2059   Scale-Factor   Grouped   2050   Grouped   2050   Grouped   2050   Grouped   2051   Grouped   2052   Grouped   2053   Grouped   2054   Grouped   2055   Grouped   2056   Grouped   2057			
2028   Recipient-Received-Address   Grouped   2029   SM-Service-Type   Enumerated   2030   MMTel-Information   Grouped   2031   Service-Type   Unsigned32   2032   Service-Mode   Unsigned32   2033   Subscriber-Role   Unsigned32   2034   Number-Of-Diversions   Unsigned32   2035   Associated-Party-Address   UTF8String   2036   SDP-Type   Enumerated   2037   Change-Condition   Integer32   2038   Change-Time   Time   2039   Diagnostics   Integer32   2040   Service-Data-Container   Grouped   2041   Start-Time   Time   2042   Stop-Time   Time   2043   Time-Irist-Usage   Time   2044   Time-Last-Usage   Time   2045   Time-Usage   Unsigned32   2046   Traffic-Data-Volumes   Grouped   2047   Serving-Node-Type   Enumerated   2048   Supplementary-Service   Grouped   2049   Participant-Action-Type   Enumerated   2050   PDN-Connection-Id   Enumerated   2051   Dynamic-Address-Flag   Enumerated   2052   Accumulated-Cost   Grouped   2053   AoC-Cost-Information   Grouped   2055   AoC-Request-Type   Enumerated   2056   Current-Tariff   Grouped   2057   Next-Tariff   Grouped   2058   Rate-Element   Grouped   2059   Scale-Factor   Grouped   2059   Grouped   2059   Scale-Factor   Grouped   2050   Scale-Factor   Grouped   2050   Scale-Factor   Grouped   2050   Scale-Factor   Grouped   2050   Scale-Factor   Group			
2023   SM-Service-Type			
2030   MMTel-Information   Grouped   332.299 [5]			
2031 Service-Type         Unsigned32           2032 Service-Mode         Unsigned32           2033 Subscriber-Role         Enumerated           2034 Number-Of-Diversions         Unsigned32           2035 Associated-Party-Address         UTF8String           2036 SDP-Type         Enumerated           2037 Change-Condition         Integer32           2038 Change-Time         Time           2039 Diagnostics         Integer32           2040 Service-Data-Container         Grouped           2041 Start-Time         Time           2042 Stop-Time         Time           2043 Time-First-Usage         Time           2044 Time-Last-Usage         Time           2045 Time-Usage         Unsigned32           2046 Traffic-Data-Volumes         Grouped           2047 Serving-Node-Type         Enumerated           2048 Supplementary-Service         Grouped           2049 Participant-Action-Type         Enumerated           2050 PDN-Connection-Id         Enumerated           2051 Dynamic-Address-Flag         Enumerated           2051 Dynamic-Address-Flag         Enumerated           2053 AoC-Cost-Information         Grouped           2054 AoC-Information         Grouped           2055 A			
2032 Service-Mode         Unsigned32           2033 Subscriber-Role         Enumerated           2034 Number-Of-Diversions         Unsigned32           2035 Associated-Party-Address         UTF8String           2036 SDP-Type         Enumerated           2037 Change-Condition         Integer32           2038 Change-Time         Time           2039 Diagnostics         Integer32           2040 Service-Data-Container         Grouped           2041 Start-Time         Time           2042 Stop-Time         Time           2043 Time-First-Usage         Time           2044 Time-Last-Usage         Time           2045 Time-Usage         Unsigned32           2046 Traffic-Data-Volumes         Grouped           2047 Serving-Node-Type         Enumerated           2048 Supplementary-Service         Grouped           2049 Participant-Action-Type         Enumerated           2050 PDN-Connection-Id         Enumerated           2051 Dynamic-Address-Flag         Enumerated           2052 Accumulated-Cost         Grouped           2054 AcC-Information         Grouped           2054 AcC-Information         Grouped           2055 AcC-Request-Type         Enumerated           2056 Current-T			32.299 [5]
2033 Subscriber-Role         Enumerated           2034 Number-Of-Diversions         Unsigned32           2035 Associated-Party-Address         UTF8String           2036 SDP-Type         Enumerated           2037 Change-Condition         Integer32           2038 Change-Time         Time           2039 Diagnostics         Integer32           2040 Service-Data-Container         Grouped           2041 Start-Time         Time           2042 Stop-Time         Time           2043 Time-First-Usage         Time           2044 Time-Last-Usage         Unsigned32           2045 Time-Usage         Unsigned32           2046 Traffic-Data-Volumes         Grouped           2047 Serving-Node-Type         Enumerated           2048 Supplementary-Service         Grouped           2049 Participant-Action-Type         Enumerated           2050 PDN-Connection-Id         Enumerated           2051 Dynamic-Address-Flag         Enumerated           2052 Accumulated-Cost         Grouped           2053 AoC-Cost-Information         Grouped           2054 AoC-Information         Grouped           2055 AoC-Request-Type         Enumerated           2055 Next-Tariff         Grouped           2058 Ra			
2034 Number-Of-Diversions         Unsigned32           2035 Associated-Party-Address         UTF8String           2037 Change-Condition         Integer32           2038 Change-Time         Time           2039 Diagnostics         Integer32           2040 Service-Data-Container         Grouped           2041 Start-Time         Time           2042 Stop-Time         Time           2043 Time-First-Usage         Time           2044 Time-Last-Usage         Unsigned32           2045 Time-Usage         Unsigned32           2046 Traffic-Data-Volumes         Grouped           2047 Serving-Node-Type         Enumerated           2048 Supplementary-Service         Grouped           2049 Participant-Action-Type         Enumerated           2050 PDN-Connection-Id         Enumerated           2051 Dynamic-Address-Flag         Enumerated           2052 Accumulated-Cost         Grouped           2054 AoC-Information         Grouped           2055 AoC-Request-Type         Enumerated           2055 Next-Tariff         Grouped           2056 Current-Tariff         Grouped           2057 Next-Tariff         Grouped           2058 Scale-Factor         Grouped			
2035         Associated-Party-Address         UTF8String           2036         SDP-Type         Enumerated           2037         Change-Condition         Integer32           2038         Change-Time         Time           2039         Diagnostics         Integer32           2040         Service-Data-Container         Grouped           2041         Start-Time         Time           2042         Stop-Time         Time           2043         Time-First-Usage         Time           2044         Time-Last-Usage         Time           2045         Time-Usage         Unsigned32           2046         Traffic-Data-Volumes         Grouped           2047         Serving-Node-Type         Enumerated           2048         Supplementary-Service         Grouped           2049         Participant-Action-Type         Enumerated           2050         PDN-Connection-Id         Enumerated           2051         Dynamic-Address-Flag         Enumerated           2052         Accumulated-Cost         Grouped           2054         AoC-Information         Grouped           2055         AoC-Request-Type         Enumerated           2055			
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2057 Next-TariffGrouped2058 Rate-ElementGrouped2059 Scale-FactorGrouped			
2058 Rate-ElementGrouped2059 Scale-FactorGrouped			
2059 Scale-Factor Grouped			
2060 Tariff-Information Grouped			
	2060   Tariff-Information	Grouped	

2061 Unit-Cost	Grouped	
2062 Incremental-Cost	Grouped	
2063 Local-Sequence-Number	Unsigned32	
2064 Node-Id	UTF8String	
2065 SGW-Change	Enumerated	
2066 Charging-Characteristic-Selection-Mode	Enumerated	
Note: The AVP codes from 2067 to 2099 are reserved for TS 32.299		
2100 reserved	-	
2101 Application-Server-ID	UTF8String	
2102 Application-Service-Type	Enumerated	
2103 Application-Session-ID	Unsigned32	
2104 Delivery-Status	UTF8String	
2105 reserved	-	
2106 reserved	-	
2107 reserved	-	
2108 reserved	-	32.299 [5]
2109 reserved	-	
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 2115 DCD-Information	Unsigned32 Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String	
Note: The AVP codes from 2118 to 2199 are reserved for TS 32.299	OTFOSHING	
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
2202 Subsession-Id	Unsigned32	29.215 [22]
2203 Subsession-Operation	Enumerated	20.210 [22]
2204 Multiple-BBERF-Action	Enumerated	
Note: The AVP codes from 2205 to 2299 are reserved for TS 29.215	Enamoratoa	
2300 reserved	-	
2301 SIP-Request-Timestamp-Fraction	Unsigned32	
2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2303 Online-Charging-Flag	Enumerated	
2304 CUG-Information	OctetString	
2305 Real-Time-Tariff-Information	Grouped	
2306 Tariff-XML	UTF8String	
2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
2309 Account-Expiration	Time	32.299 [5]
2310 AoC-Format	Enumerated	32.233 [3]
2311 AoC-Service	Enumerated	
2312 AoC-Service-Obligatory-Type	Grouped	
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reason-Code	Enumerated	
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
Note: The AVP codes from 2320 to 2399 are reserved for TS 32.299	Octot Ctrica	
2400 LMSI	OctetString Grouped	
2401 Serving-Node 2402 MME-Name	Grouped DiameterIdentity	
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets	Unsigned32	29.173 [25]
2405 GMLC-Address	Address	
2406 Additional-Serving-Node	Grouped	
2407 PPR-Address	Address	
Note: The AVP codes from 2408 to 2499 are reserved for TS 29.173	, luul 000	
	Enumerated	
12500 Location- rype		
2500 Location-Type 2501 LCS-EPS-Client-Name		29.172 [24]
2500 LCS-EPS-Client-Name 2502 LCS-Requestor-Name	Grouped Grouped	29.172 [24]

2503 LCS-Priority	Unsigned32	
2504 LCS-QoS	Grouped	
2505 Horizontal-Accuracy	Unsigned32	
2506 Vertical-Accuracy	Unsigned32	
2507 Vertical-Requested	Enumerated	
2508 Velocity-Requested	Enumerated	
2509 Response-Time	Enumerated	
2510 Supported-GAD-Shapes	Unsigned32	
2511 LCS-Codeword	UTF8String	
2512 LCS-Privacy-Check	Enumerated	
2513 Accuracy-Fulfilment-Indicator	Enumerated	
2514 Age-Of-Location-Estimate	Unsigned32	
2515 Velocity-Estimate	OctetString	
2516 EUTRAN-Positioning-Data	OctetString	
2517 ECGI	OctetString	
2518 Location-Event	Enumerated	
2519 Pseudonym-Indicator	Enumerated	
2520 LCS-Service-Type-ID	Unsigned32	
2521 LCS-Privacy-Check-Non-Session	Grouped	
2522 LCS-Privacy-Check-Session	Grouped	
2523 LCS-QoS-Class	Enumerated	
Note: The AVP codes from 2524 to 2599 are reserved for T	S 29.172	

## 8 Experimental result codes

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

## 8.1 3GPP specific result codes

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

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

#### 8.1.1 Informational

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

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

#### 8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

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

#### 8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS	
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.	
		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	29.212 [19]
Note: The Experime	ntal Result Codes from 4142 to 4160 are reserved for the TS 29.212	
		32.299 [5]
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.	
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	29.272 [21]
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.	
4201	DIAMETER_ERROR_ABSENT_USER	29.173 [25]
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.	
4221	DIAMETER_ERROR_UNREACHABLE_USER	
4222	DIAMETER_ERROR_SUSPENDED_USER	
4223	DIAMETER_ERROR_DETACHED_USER	20 472 [24]
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]
4225	DIAMETER_ERROR_POSITIONING_FAILED	
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT	
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.	

#### 8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result 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	S 29 229
TTOTO: THE EXPO	Infinitional Research Control of the Telegraphic Research and the Telegrap	32.299 [5]
Note: The Expe	rimental Result Codes from 5021 to 5040 are reserved for the TS	
5041	DIAMETER ERROR USER NO WLAN SUBSCRIPTION	3 32.233.
5042	DIAMETER ERROR W-APN UNUSED BY USER	
5042	DIAMETER_ERROR_W-AFN_UNGSED_BT_USER  DIAMETER ERROR NO ACCESS INDEPENDENT SUBSC	
3043		29.234 [6]
5044	RIPTION	
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	2.00.004
	rimental Result Codes from 5046 to 5060 are reserved for the TS	
	INVALID_SERVICE_INFORMATION	29.209 [8],
5062	FILTER_RESTRICTIONS	29.211 [17]
29.2		9.209 and TS
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	00 000 [4]
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	
	rimental Result Codes from 5109 to 5119 are reserved for the TS	S 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA  rimental Result Codes from 5124 to 5139 are reserved for the TS	2 20 064
	DIAMETER_ERROR_INITIAL_PARAMETERS	3 29.001.
5140		
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	29.212 [19]
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	• •
5143	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D	
Note: The Expe	rimental Result Codes from 5144 to 5159 are reserved for the TS	S 29.212.
5401	DIAMETER_ERROR_IMPI_UNKNOWN	
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	-
Note: The Expe	rimental Result Codes from 5404 to 5419 are reserved for the TS	S 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	· - · - (- · )
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	
	rimental Result Codes from 5424 to 5449 are reserved for the TS	S 29 272
5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI	J 20.212.
F 454	ON CHARGE FOR THE PART OF A PART OF THE PA	29.273 [20]
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	
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.		
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK	29.173 [25]
Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173.		

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

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

## A.1 Application identifiers

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

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

#### A.2 Command codes

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

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

## A.3 AVP codes

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

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

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

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

## A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

# Annex B (informative): Change history

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		<u> </u>	Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12	CN#26	NP-040580		1	Reservation of command code 310	6.1.0	6.2.0
2004-12	CN#26	NP-040579		1	Addition of Gmb interface	6.1.0	6.2.0
2004-12	CN#26	NP-040600		2	Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047		1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
	ļ	NP-050039			Allocations for Gx interface	ļ	
	ļ	NP-050039			Allocations for Gmb interface	ļ	
0005.00	OT#00	NP-050039			Allocations for MMS, MM10 Interface	0.0.0	0.40
2005-06	CT#28	CP-050088		4	Gx interface allocation correction	6.3.0	6.4.0
2005.00	CT#20	CP-050196		1	Addition of Maximum-Number-Accesses AVP	C 4 O	0.5.0
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.4.0	6.5.0
		CP-050310 CP-050310		-	Addition of Pr reference point to TS 29.230  Error code cleanup	{	
	ŀ	CP-050310			Addition of Rx ref. point and renaming of Experimental Result	}	
		CF-030310	0030		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		
	ŀ	CP-050612			Reservation of AVP codes for 32.299	İ	
		CP-050625			Management of Sh subscriptions	ĺ	
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
	ĺ	CP-060084	0071		User-Data in the response to Sh-Subs-Notif	Ì	
		CP-060084	0072	1	New error indications for the Sh-Subs-Notif procedure	]	
2006-06	CT#32	CP-060302	0075		S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417	0077	3	New AVP Code	7.3.0	7.4.0
		CP-060417	0800		Errors to be sent in response to Sh-Notif	]	
		CP-060417			Definition of specific Diameter codes for DSAI	]	
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
	ļ	CP-060562			Addition of Diameter Error Code for Emergency Purposes	Į	
	ļ	CP-060555			Allocation of new AVP codes for Gmb	Į	
	ļ	CP-060555			AVP code allocations for Rf and Ro interfaces	]	
		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
	ļ	CP-070020			Allocation of new AVP code for DSAI-Tag AVP	ļ	
		CP-070020			Allocation of Experimental-Result-Code AVP for Gi Interface		
2007-06	CT#36	CP-070318			Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
	ŀ	CP-070312			Experimental-Result-Codes for Gmb interface	ļ	
0007.00	OT#07	CP-070312		-	Correction of Diameter AVP code allocation	770	700
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 Allocation of 3GPP specific AVP codes and Experimental Result	7.8.0	7.9.0
			0105		Codes for Gx protocol		
2007-12	CT#38	CP-070755		4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
	1		0103		AVP code reservation for 32.299 in Rel-8		
2008-03	CT#39	CP-080015			Correction of reference to TS 29.140	8.0.0	8.1.0
		CP-080019			AVP code reservation for TS 32.299 in Rel-8	Į	
		CP-080019		ļ	Wildcarded Public User Identities	ļ	
		CP-080191	0112	1	Correction on AVP code allocation reservation for TS 32.299 in Rel-7		
	<u> </u>	CP-080204	0113	1	Correction on AVP code allocation reservation for TS 32.299		<u></u>
2008-06	CT#40	CP-080267	0117		A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-09	CT#41	CP-080456	0119		Emergency Public User Identity Removal	8.2.0	8.3.0
2008-09	CT#41	CP-080460			Support of "Loose-Route" indication from HSS	]	
2008-09	CT#41	CP-080460		1	STaMIP Application Id	Į	
2008-09	CT#41	CP-080463	10123	1	Cx Impacts of IMS Restoration Procedures (New AVP Codes	1	1

1	1	1			Assignment)	1	ĺ
2008-09	CT#41	CP-080463			New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42	CP-080691			Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691			Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43 CT#43	CP-090044 CP-090044		1	Update for ReadyForSM Handling LCS Subscription Data	8.4.0 8.4.0	8.5.0 8.5.0
2009-03	CT#43	CP-090044		1	Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033		2	Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	AVP codes for S9 protocol	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0138	1	Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0140	1	Location of Permanent Failure result code range for the S9 application	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0141		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
	Į	CP-090299			AVP code reservation for TS 32.299	Ţ	
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13'	<u> </u>	
		00.00000	0146		Removal of Requesting Node Type from AIR	4	
2000 00	OT#45	CP-090299			S6b Application ID	0.00	0.7.0
2009-09	CT#45	CP-090530 CP-090530		1	Allocation of Experimental-Result-Codes for S9 protocol  AVP code allocation for TS 29.212	8.6.0	8.7.0
		CP-090530 CP-090531	-		Update of the AVP type for the User-Id	1	
	1	CP-090531			Trace Depth per session	┪	
2009-09	CT#45	CP-090557			AVP code range for charging	8.7.0	9.0.0
2009-12	CT#46	CP-090800		1	ICS-Flag	9.0.0	9.1.0
		CP-091032			From GMLC-Address to GMLC-Number		
			0160		Session-Priority AVP		
			0163	2	Introduction of SLh application related AVPs and Experimental Result codes		
			0166		Missing AVP error codes		
		CP-090797	0167	1	Introduction of SLg application related AVPs and Application Identifier		
2010-03	CT#47	CP-100031	0158	1	Wildcarded Public Identity	9.1.0	9.2.0
		CP-100034			Correction on AVP code allocation reservation for TS 32.299 in Rel-9		
		CP-100046	0169	1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109		
	į	CP-100046			Error codes in 29.172 for SLg		
		CP-100048	-	1	AVPs in 29.272 for TADS support		
		CP-100040			Error codes in 29.272 for Unknown MME		
		CP-100236 CP-100033		4	EPS Subcsriber State and Location Information Request One time notification AVP allocation		
		CP-100033			Addition of the LCS-QoS-Class attribute value		
		CP-100175			Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
2010-06	CT#48	CP-100263		1	AVP Codes for PCC	9.2.0	9.3.0
			0183		EPS state and location retrieval		
		CP-100287			SGmb Application ID		
2040.00	CT#49	CP-100277			New APVs in S6a protocol	0.0.0	0.4.0
2010-09	C1#49	CP-100463	0197	1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces	9.3.0	9.4.0
		CP-100464	0196		AVP Codes Allocation for PCC	-	
2010-09	CT#49	CP-100465	0193	1	SIPTO Permission Indicator	9.4.0	10.0.0
	j	CP-100466			Location data including only serving node address		İ
		CP-100466		1	AVP for Update-Eff feature		
2010-12	CT#50	CP-100699			Enhanced SRVCC Subscriber Data	10.0.0	10.1.0
	į	CP-100687		1	Allocate codes for AVPs on eMPS	-	ļ i
	ļ	CP-100683 CP-100688			Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription		l I
		CP-100846			S6a Error Diagnostic	-	
2011-03	CT#51	CP-110051			PDP-Address correction	10.1.0	10.2.0
		CP-110054	0215		Essential correction on the value type of the ELP Application AVPs		
		CP-110087			Minimization of Drive Tests (MDT)	1	
0044.00	OT#55	CP-110088			Relay Node Indicator AVPs	40.00	40.0
2011-06	CT#52	CP-110349			Handling of RTR for Emergency Registration  Add AVPs from QSPEC cleanup	10.2.0	10.3.0
		CP-110347 CP-110359		1	MIPv4 security parameters on the STa and S6b interfaces	1	
		CP-110339			MDT user consent	1	
İ	1	CP-110370			AVP Code Allocation for Pre-paging	1	
l		CF-110370	0223		AVI Code Allocation for Fle-paging		

## History

Document history							
V10.2.0	April 2011	Publication					
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