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Diameter applications; 3GPP specific codes and identifiers (3GPP TS 29.230 version 10.14.0 Release 10)



# Reference RTS/TSGC-0429230vae0 Keywords GSM,LTE,UMTS

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#### Foreword

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#### 1 Scope

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

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

#### 2 References

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

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

Diameter protocol".

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

[1]	3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and message contents".
[2]	3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter protocol; Protocol details".
[3]	3GPP TS 29.328: "IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents".
[4]	3GPP TS 29.329: "Sh Interface based on the Diameter protocol; Protocol details".
[5]	3GPP TS 32.299: "3GPP Diameter charging application".
[6]	3GPP TS 29.234: "3GPP System to WLAN Interworking; Stage 3 Description".
[7]	3GPP TS 29.109: "Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Protocol details".
[8]	3GPP TS 29.209: "Technical Specification Group Core Network; Policy control over Gq interface".
[9]	IETF RFC 3588: "Diameter Base Protocol".
[10]	IETF RFC 3589: "Diameter Command Codes for Third Generation Partnership Project (3GPP) Release 5".
[11]	IANA"s Enterprise-Numbers: <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="mailto: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
	[2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14]

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

#### 3 Definitions and abbreviations

#### 3.1 Definitions

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

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

#### 3.2 Abbreviations

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

AVP Attribute-Value-Pair
CR Change Request
LANA Interpret Assigned No.

IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force

LS Liaison Statement

#### 4 Application identifiers

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

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

#### 4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

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

#### 5 Command codes

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

#### 5.1 Command codes allocated for 3GPP

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

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

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

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

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

#### 6 Vendor identifier

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

#### 6.1 3GPP"s vendor identifier

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

#### 7 Attribute-Value-Pair codes

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

#### 7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
102	3GPP-WLAN-QoS-Filter-Support	OctetString	1
Note:	The AVP codes from 1 to 255 are reserved for backwards compatibili	ty with 3GPP RADIUS Ve	ndor Specific
Attribu	ites (See TS 29.061 [13] and TS 29.234 [6])		·
Note:	The AVP codes from 256 to 299 are reserved for future use.		
300	Authentication-Method	Enumerated	
301	Authentication-Information-SIM	OctetString	
302	Authorization -Information-SIM	OctetString	
303	WLAN-User-Data	Grouped	
304	Charging-Data	Grouped	
305	WLAN-Access	Enumerated	
306	WLAN- 3GPP-IP-Access	Enumerated	
307	APN-Authorized	Grouped	
308	APN-Id	·	
309	APN-Barring-Type	Enumerated	29.234 [6]
310	WLAN-Direct-IP-Access	Enumerated	29.234 [0]
311	Session-Request-Type	Enumerated	
312	Routing-Policy	IPFilterRule	
313	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	1
	Maximum-Number-Accesses	Unsigned32	1
Note:	The AVP codes from 320 to 399 are reserved for TS 29.234		
400	GBA-UserSecSettings	OctetString	
401	Transaction-Identifier	OctetString	
402	NAF-Hostname	OctetString	
	GAA-Service-Identifier	OctetString Time	
404	Key-ExpiryTime ME-Key-Material	OctetString	-
406	UICC-Key-Material	OctetString	
	GBA_U-Awareness-Indicator	Enumerated	
408	BootstrapInfoCreationTime	Time	1
	GUSS-Timestamp	Time	
	GBA-Type	Enumerated	29.109 [7]
411	UE-Id	OctetString	
412	UE-Id-Type UICC-App-Label	Enumerated OctetString	-
	UICC-ME	Enumerated	
	Requested-Key-Lifetime	Time	1
	Private-Identity-Request	Enumerated	
	GBA-Push-Info	OctetString	
	NAF-SA-Identifier	OctetString	
	Security-Feature-Request	OctetString	4
	Security-Feature-Response	OctetString	
	The AVP codes from 421 to 499 are reserved for TS 29.109	Enumerated.	1
	Abort-Cause	Enumerated	4
	Access-Network-Charging-Address	Address	4
	Access-Network-Charging-Identifier	Grouped	00 000 101
	Access-Network-Charging-Identifier-Value	OctetString	29.209 [8],
	AF-Application-Identifier	OctetString	29.211 [17] ,
	AF-Charging-Identifier	OctetString	29.214 [18]
	Authorization-Token	OctetString	4
	Flow-Description	IPFilterRule	4
508	Flow-Grouping	Grouped	

_		,	
	Flow-Number	Unsigned32	
	Flows	Grouped	
	Flow-Status	Enumerated	
	Flow-Usage	Enumerated	
	Specific-Action	Enumerated	
	Max-Requested-Bandwidth	Unsigned32	
515	Max-Requested-Bandwidth-DL	Unsigned32	
516	Max-Requested-Bandwidth-UL	Unsigned32	
	Media-Component-Description	Grouped	
	Media-Component-Number	Unsigned32	
519	Media-Sub-Component AVP	Grouped	
520	Media-Type	Enumerated	
521	RR-Bandwidth	Unsigned32	
522	RS-Bandwidth	Unsigned32	
523	SIP-Forking-Indication	Enumerated	
524	Codec-Data	OctetString	
525	Service-URN	OctetString	
526	Acceptable-Service-Info	Grouped	
	Service-Info-Status	Enumerated	
	MPS-Identifier	OctetString	
	AF-Signalling-Protocol	Enumerated	
	Sponsored-Connectivity-Data	Grouped	
531	Sponsor-Identity	OctetString	
532	Application-Service-Provider-Identity	OctetString	
	reserved	-	
	Min-Requested-Bandwidth-DL	Unsigned32	
	Min-Requested-Bandwidth-UL	Unsigned32	
	The AVP codes from 536 to 599 are reserved for TS 29.209, TS 29.2		
	Visited-Network-Identifier	OctetString	
	Public-Identity Public-Identity	UTF8String	
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	
	SIP-Authorization	OctetString	
	SIP-Authentication-Context	OctetString	
	SIP-Auth-Data-Item	Grouped	
	SIP-Item-Number	Unsigned32	
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
	Reason-Info	UTF8String	
	Charging-Information	Grouped	29.229 [2]
	Primary-Event-Charging-Function-Name	DiameterURI	[]
	Secondary-Event-Charging-Function-Name	DiameterURI	
	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
	User-Authorization-Type	Enumerated	
	User-Data-Already-Available	Enumerated	
	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
	Supported-Applications	Grouped	
	Associated-Identities		
		Grouped	
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String Grouped	
		rarouped	
	SIP-Digest-Authenticate Wildcarded-IMPU	UTF8String	

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

887   Irrunk-Group-Id	BSZ   Incoming-Trunk-Group-Id		-		
SST   Surgione   UTF8String	653 Outgoing-Trunk-Group-Id         UTF8String           654 Beater's Service         OctelString           655 Associated-URI         UTF8String           656 Associated-URI         UTF8String           657 Charged-Party         UTF8String           658 Poc-Cortorling-Address         UTF8String           659 Poc-Cortorling-Address         UTF8String           659 Cause         Grouped           661 Cause-Code         Integer32           661 Cause-Code         Integer32           662 Node-Trunklorality         Enumerated           663 Service-Specific-Data         UTF8String           664 Originator         Enumerated           665 PS-Furish-Charging-Information         Grouped           666 PS-Free-Format-Data         Catalisting           667 PS-Append-Free-Format-Data         Enumerated           668 Time-Quota-Threshold         Unsigned32           670 Trigger-Type         Enumerated           671 Quota-Holding-Time         Unsigned32           672 Reporting-Reason         Enumerated           673 Service-Information         Grouped           674 PS-Information         Grouped           675 IWAN-Information         Grouped           676 IWS-Information         Grouped				
Basfar   Service   Octestrring	Bear				
Service-Id	8556         Associated-URI         UTF8String           857         Charged-Party         UTF8String           858         POC-Corrupling-Address         UTF8String           859         POC-Corup-Name         UTF8String           859         POC-Corup-Name         UTF8String           860         Cause         Grouped           861         Cause-Code         Integer32           862         Node-Functionality         Enumerated           863         Service-Specific-Data         UTF8String           864         Originator         Enumerated           865         PS-Fer-Fer-Format-Data         Grouped           866         PS-Fer-Fer-Format-Data         Enumerated           867         PS-Append-Free-Format-Data         Enumerated           867         PS-Append-Free-Format-Data         Enumerated           867         Unsigned32         Volume-Quota-Threshold         Unsigned32           868         Fire-Cubra-Threshold         Unsigned32           870         Trigger-Type         Enumerated           871         Total Ps-Information         Grouped           872         Reporting-Reason         Enumerated           873         PS-Lifermation				
SSG   Associated-URI	856 Associated-URI         UTF8String           857 Charged-Party         UTF8String           858 PoC-Controlling-Address         UTF8String           859 PoC-Controlling-Address         UTF8String           860 Cause         Grouped           861 Cause-Code         Integer22           862 Node-Functionality         Enumerated           863 Service-Specific-Data         UTF8String           864 Originator         Enumerated           865 PS-Free-Format-Data         Grouped           866 PS-Free-Format-Data         Detection           867 PS-Append-Free-Format-Data         Enumerated           868 PS-Free-Format-Data         Unsigned32           867 PS-Append-Free-Format-Data         Enumerated           968 Time-Quota-Threshold         Unsigned32           970 Trigger-Type         Enumerated           971 Quota-Holding-Time         Unsigned32           972 Trigger-Type         Enumerated           973 Reporting-Reason         Enumerated           974 Reporting-Reason         Enumerated           975 Reporting-Reason         Enumerated           976 Reporting-Reason         Enumerated           977 MS-Information         Grouped           978 PS-Information         Grouped				
1857   Charged-Party	657 Charged-Party         UTF8String           858 PoC-Group-Name         UTF8String           859 PoC-Group-Name         UTF8String           850 Cause         Grouped           861 Cause-Code         Integer32           862 Node-Functionality         Enumerated           863 Service-Specific-Data         UTF8String           863 Service-Specific-Data         UTF8String           865 PS-Free-Format-Data         CattoString           866 PS-Free-Format-Data         CattoString           867 PS-Append-Free-Format-Data         Enumerated           868 Inme-Quota-Threshold         Unsigned32           870 Tringger-Type         Enumerated           871 Quota-Holding-Time         Unsigned32           872 Reporting-Resson         Enumerated           873 Service-Information         Grouped           874 PS-Information         Grouped           875 WLAR-Information         Grouped           876 IlM5-Information         Grouped           877 MMS-Information         Grouped           878 Po-Co-Information         Grouped           879 Po-C-Information         Grouped           880 MBMS-Information         Grouped           881 Quota-Consumption-Time         Unsigned32				
1585   POC-Controlling-Address	858 P.OC-Controlling-Address         UTF8String           859 P.OC-Group-Name         UTF8String           860 Cause         Grouped           861 Cause-Code         Integer32           862 Sevice-Specific-Data         UTF8String           863 Sevice-Specific-Data         UTF8String           864 Originator         Enumerated           865 PS-Free-Format-Data         OctetString           866 PS-Free-Format-Data         OctetString           867 IPS-Append-Free-Format-Data         Enumerated           867 IPS-Append-Free-Format-Data         Enumerated           868 Time-Quota-Threshold         Unsigned32           869 Volume-Quota-Threshold         Unsigned32           870 Trigger-Type         Enumerated           871 Guota-Holding-Time         Unsigned32           872 Reporting-Reason         Enumerated           873 Service-Information         Grouped           874 PS-Information         Grouped           875 WLAN-Information         Grouped           876 INS-Information         Grouped           877 Robin-Grouped         Grouped           878 Information         Grouped           879 PC-Information         Grouped           881 Quota-Consumption-Time         Unsigned32				
BSS   POC-Group-Name	B99   PoC-Group-Name				
B60   Cause	B60   Cause				
B81   Cause-Code   Integer32   B82   Mode-Functionality   Enumerated   B63   Service-Specific-Data   UTF8String   B64   Originator   Enumerated   B63   Service-Specific-Data   UTF8String   B64   Originator   Enumerated   B65   PS-Fureinsh-Charging-Information   Grouped   Gr	B61   Cause-Code				
B62					
B63   Service-Specific-Data   UTF8String	B63   Service-Specific-Data			ŭ	
B65   PS-Furish-Charging-Information   Grouped	B64   Originator   Enumerated   B65   PS-Free-Format-Data   OctotString   B66   PS-Free-Format-Data   Charles   B67   PS-Append-Free-Format-Data   Enumerated   B68   Time-Quota-Threshold   Unsigned32   B69   Volume-Quota-Threshold   Unsigned32   B70   Trigger-Type   Enumerated   B70   Trigger-Type   Enumerated   B71   Quota-Holding-Time   Unsigned32   B72   Reporting-Reason   Enumerated   B73   Service-Information   Grouped   B74   PS-Information   Grouped   B75   WLAN-Information   Grouped   B76   MS-Information   Grouped   B77   MMS-Information   Grouped   B78   LCS-Information   Grouped   B78   LCS-Information   Grouped   B79   B70   Trigger   Grouped   B70   Trigger   Grouped   B71   Trigger   Grouped   B72   Trigger   Grouped   B73   Trigger   Grouped   B74   Trigger   Grouped   B75   Trigger   Grouped   B76   Grouped   Grouped   B77   Trigger   Grouped   B78   Trigger   Grouped   Grouped   B79   Grouped   Grouped   Grouped   B70   Trigger   Grouped   Grouped   B71   Trigger   Grouped   Grouped   B72   Grouped   Grouped   Grouped   Grouped   B73   Grouped   Grouped   Grouped   Grouped   Grouped   B77   Grouped   Gro				
B65   PS-Furnish-Charging-Information   Grouped	B65   PS-Furnish-Charging-Information   Grouped		<u>'</u>		
B66   PS-Free-Format-Data	B66   PS-Free-Format-Data				
B87   PS-Append-Free-Format-Data	B67   PS-Append-Free-Format-Data				
868 Time-Quota-Threshold         Unsigned32           869 Volume-Quota-Threshold         Unsigned32           870 Trigger-Type         Enumerated           871 Quota-Holding-Time         Unsigned32           872 Reporting-Reason         Enumerated           873 Service-Information         Grouped           874 PS-Information         Grouped           875 WLAN-Information         Grouped           876 IMS-Information         Grouped           877 MMS-Information         Grouped           878 LCS-Information         Grouped           879 PoC-Information         Grouped           880 MBMS-Information         Grouped           881 Quota-Consumption-Time         Unsigned32           882 Media-Initator-Flag         Enumerated           883 PoC-Server-Role         Enumerated           884 POC-Session-Type         Enumerated           885 Number-Of-Participants         Unsigned32           886 Originator-Address         Grouped           887 Participants-Involved         UTF8String           888 Expires         Unsigned32           889 Message-Body         Grouped           890 WAG-Address         Address           891 WAG-PLMN-Id         Octestiring           892 WLAN-War	868 I Time-Quota-Threshold         Unsigned32           869 Volume-Quota-Threshold         Unsigned32           870 Trigger-Type         Enumerated           871 Quota-Holding-Time         Unsigned32           872 Reporting-Reason         Enumerated           873 Service-Information         Grouped           874 PS-Information         Grouped           875 MLAN-Information         Grouped           876 IMS-Information         Grouped           877 MMS-Information         Grouped           878 Dec-Information         Grouped           880 MBMS-Information         Grouped           881 Quota-Consumption-Time         Unsigned32           882 Media-Initiator-Flag         Enumerated           883 PoC-Server-Role         Enumerated           884 PoC-Session-Type         Enumerated           885 PoC-Session-Type         Enumerated           886 Originator-Address         Grouped           887 Participants-Involved         UTF8String           888 Expires         Unsigned32           889 Message-Body         Grouped           890 WAG-Address         Address           891 WAN-Radio-Container         Grouped           892 WLAN-Radio-Container         Grouped           893 WL			ŭ	
Resp	1669   Volume-Quota-Threshold				
B70   Trigger-Type				Ŭ	
871         Quota-Holding-Time         Unsigned32           872         Reporting-Reason         Enumerated           873         Service-Information         Grouped           874         PS-Information         Grouped           875         WLAN-Information         Grouped           876         IMS-Information         Grouped           877         MMS-Information         Grouped           878         LCS-Information         Grouped           879         PcC-Information         Grouped           880         MBMS-Information         Grouped           881         Quota-Consumption-Time         Unsigned32           882         Media-Initiator-Flag         Enumerated           883         PoC-Server-Role         Enumerated           884         PoC-Session-Type         Enumerated           885         Number-OI-Participants         Unsigned32           886         Originator-Address         Grouped           887         Participants-Involved         UTF8String           888         Expires         Unsigned32           889         Message-Body         Grouped           890         MgAP-LMN-Id         OctetString           891					
Reporting-Reason	872 Reporting-Reason				
874   PS-Information   Grouped	Service-Information			Ŭ	
875   WLAN-Information   Grouped	PS-Information				
876   IMS-Information	B75   WLAN-Information				
B76   IMS-Information	876 IMS-Information         Grouped           877 MMS-Information         Grouped           878 LCS-Information         Grouped           879 PoC-Information         Grouped           880 MBMS-Information         Grouped           880 Louta-Consumption-Time         Unsigned32           881 Quota-Consumption-Time         Unsigned32           882 Media-Initiator-Flag         Enumerated           883 PoC-Server-Role         Enumerated           884 PoC-Session-Type         Enumerated           885 Number-Or-Participants         Unsigned32           886 Originator-Address         Grouped           887 Participants-Involved         UTF8String           888 Expires         Unsigned32           889 Message-Body         Grouped           890 WAG-Address         Address           891 WAG-PLMN-Id         OctetString           892 WLAN-Radio-Container         Grouped           893 WLAN-Technology         Unsigned32           894 WLAN-Us-Local-IPAddress         Address           895 PDG-Charging-Id         Unsigned32           896 PDG-Charging-Id         Unsigned32           897 Address-Data         UTF8String           898 Address-Domain         Grouped           899 Address-				
877 MMS-Information         Grouped           878 LCS-Information         Grouped           879 PoC-Information         Grouped           880 MBMS-Information         Grouped           881 Quota-Consumption-Time         Unsigned32           882 Media-Initiator-Flag         Enumerated           883 PoC-Server-Role         Enumerated           885 Number-Of-Participants         Unsigned32           886 Originator-Address         Grouped           887 Participants-Involved         UTF8String           888 Expires         Unsigned32           889 Message-Body         Grouped           890 WAG-Address         Address           891 WAG-PUMN-Id         OctetString           892 WLAN-Radio-Container         Grouped           893 WLAN-Technology         Unsigned32           894 WLAN-UE-Local-IPAddress         Address           895 PDG-Address         Address           896 PDG-Charging-Id         Unsigned32           897 Address-Domain         Grouped           898 Address-Domain         Grouped           899 Address-Type         Enumerated           900 TMGI         OctectString           901 Required-MBMS-Bearer-Capabilities         UTF8String           905 Alternative-APN	B77   MMS-Information   Grouped				
878 LCS-Information         Grouped           879 PoC-Information         Grouped           880 MBMS-Information         Grouped           881 Quota-Consumption-Time         Unsigned32           882 Media-Initiator-Flag         Enumerated           883 PoC-Server-Role         Enumerated           884 PoC-Session-Type         Enumerated           885 Number-OF-Participants         Unsigned32           866 Originator-Address         Grouped           887 Participants-Involved         UTF8String           888 Expires         Unsigned32           889 Message-Body         Grouped           890 WAG-Address         Address           891 WAG-PLMN-Id         OctetString           892 WLAN-Radio-Container         Grouped           893 WLAN-Technology         Unsigned32           894 WLAN-UE-Local-IPAddress         Address           895 PDG-Address         Address           896 PDG-Charging-Id         Unsigned32           897 Address-Data         UTF8String           898 Address-Domain         Grouped           899 Address-Type         Enumerated           900 TMGI         OctectString           901 TMGI         OctectString           902 MBMS-Service-Area         Oc	878 I.CS-Information         Grouped           879 PoC-Information         Grouped           880 MBMS-Information         Grouped           881 Quota-Consumption-Time         Unsigned32           882 Media-Initiator-Flag         Enumerated           883 PoC-Server-Role         Enumerated           884 PoC-Session-Type         Enumerated           885 Number-Of-Participants         Unsigned32           886 Originator-Address         Grouped           887 Participants-Involved         UTF8String           888 Expires         Unsigned32           889 Message-Body         Grouped           890 WAG-Address         Address           891 WAG-PLMN-Id         OctelString           892 WLAN-Radio-Container         Grouped           893 WLAN-Technology         Unsigned32           894 WLAN-UE-Local-IPAddress         Address           895 PDG-Address         Address           896 PDG-Charging-Id         Unsigned32           897 Address-Data         UTF8String           898 Address-Domain         Grouped           899 Address-Domain         Grouped           890 PMS-StartStop-Indication         Enumerated           901 Required-MBMS-Bearer-Capabilities         UTF8String				
879         PoC-Information         Grouped           880         MBMS-Information         Grouped           881         Quota-Consumption-Time         Unsigned32           882         Media-Initiator-Flag         Enumerated           883         PoC-Server-Role         Enumerated           884         PoC-Session-Type         Enumerated           885         Number-Of-Participants         Unsigned32           886         Originator-Address         Grouped           887         Participants-Involved         UTF8String           888         Expires         Unsigned32           889         Message-Body         Grouped           890         WAG-PLMN-Id         OctetString           891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Domain         Grouped           898         Address-Domain         Grouped           899	879   PoC-Information				
880         MBMS-Information         Grouped           881         Quota-Consumption-Time         Unsigned32           882         Media-Initiator-Flag         Enumerated           883         PoC-Server-Role         Enumerated           884         PoC-Session-Type         Enumerated           885         Number-Of-Participants         Unsigned32           886         Originator-Address         Grouped           887         Participants-Involved         UTF8String           888         Message-Body         Grouped           890         WAG-Address         Address           891         WAG-Address         Address           891         WAAN-Radio-Container         Grouped           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Domain         Grouped           898         Address-Domain         Grouped           899         Address-Domain         Grouped           890	880         MBMS-Information         Grouped           881         Quota-Consumption-Time         Unsigned32           882         Media-Initiator-Flag         Enumerated           883         POC-Server-Role         Enumerated           884         PoC-Session-Type         Enumerated           885         Number-Of-Participants         Unsigned32           886         Originator-Address         Grouped           887         Participants-Involved         UTF8String           888         Expires         Unsigned32           889         Message-Body         Grouped           890         WAG-Address         Address           891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         PDG-Charging-Id         Unsigned32           899         Address-Domain         Grouped           890				
881 Quota-Consumption-Time         Unsigned32           882 Media-Initiator-Flag         Enumerated           883 PoC-Server-Role         Enumerated           884 PoC-Session-Type         Enumerated           885 Number-Of-Participants         Unsigned32           886 Originator-Address         Grouped           887 Participants-Involved         UTF8String           888 Expires         Unsigned32           890 WAG-Address         Grouped           890 WAG-PLMN-Id         OctetString           892 WLAN-Radio-Container         Grouped           893 WLAN-Technology         Unsigned32           894 WLAN-UE-Local-IPAddress         Address           895 PDG-Address         Address           896 PDG-Charging-Id         Unsigned32           897 Address-Data         UTF8String           898 Address-Domain         Grouped           899 Address-Type         Enumerated           900 TMGI         OctectString           901 Required-MBMS-Bearer-Capabilities         UTF8String           902 MBMS-Service-Area         OctectString           904 MBMS-Session-Duration         Unsigned32           905 Alternative-APN         UTF8String           906 MBMS-Service-Type         Enumerated	881   Quota-Consumption-Time         Unsigned32           882   Media-Initiator-Flag         Enumerated           883   PoC-Server-Role         Enumerated           884   PoC-Session-Type         Enumerated           885   Number-Of-Participants         Unsigned32           886   Originator-Address         Grouped           887   Participants-Involved         UTF8String           888   Expires         Unsigned32           889   Message-Body         Grouped           890   WAG-Address         Address           891   WAG-PLMN-Id         OctetString           892   WLAN-Radio-Container         Grouped           893   WLAN-Technology         Unsigned32           894   WLAN-UE-Local-IPAddress         Address           895   PDG-Address         Address           896   PDG-Charging-Id         Unsigned32           897   Address-Data         UTF8String           898   Address-Domain         Grouped           899   Address-Type         Enumerated           900   TMGI         OctectString           901   Required-MBMS-Bearer-Capabilities         UTF8String           902   MBMS-Service-Area         OctectString           903   MBMS-Service-Type         Enumerated           904   MBMS-Session-Duration				
882         Media-Initiator-Flag         Enumerated           883         PoC-Server-Role         Enumerated           884         PoC-Session-Type         Enumerated           885         Number-Of-Participants         Unsigned32           886         Originator-Address         Grouped           887         Participants-Involved         UTF8String           888         Expires         Unsigned32           889         Message-Body         Grouped           890         WAG-Address         Address           891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-Technology         Unsigned32           894         WLAN-Technology         Unsigned32           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Data         UTF8String           899         Address-Type         Enumerated           900         TMG         OctectString           901         Required-MB	882 Media-Initiator-Flag         Enumerated           883 PoC-Server-Role         Enumerated           884 PoC-Session-Type         Enumerated           885 Number-Of-Participants         Unsigned32           886 Originator-Address         Grouped           887 Participants-Involved         UTF8String           888 Expires         Unsigned32           889 Message-Body         Grouped           890 WAG-Address         Address           891 WAG-PLMN-Id         OctetString           892 WLAN-Radio-Container         Grouped           893 WLAN-Technology         Unsigned32           894 WLAN-UE-Local-IPAddress         Address           895 PDG-Address         Address           896 PDG-Charging-Id         Unsigned32           897 Address-Domain         Grouped           898 Address-Domain         Grouped           899 Address-Type         Enumerated           900 TMGI         OctectString           901 Required-MBMS-Bearer-Capabilities         UTF8String           902 MBMS-StartStop-Indication         Enumerated           903 MBMS-Session-Duration         Unsigned32           904 Alternative-APN         UTF8String           906 MBMS-Sesvice-Type         Enumerated				
883         PoC-Server-Role         Enumerated           884         PoC-Session-Type         Enumerated           885         Number-Of-Participants         Unsigned32           886         Originator-Address         Grouped           887         Participants-Involved         UTF8String           888         Expires         Unsigned32           889         Message-Body         Grouped           890         WAG-Address         Address           891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Type         Enumerated           900         TMGI         OctectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-StartStop-Indication         Enumerated           903<	883 PoC-Server-Role         Enumerated           884 PoC-Session-Type         Enumerated           885 Number-Of-Participants         Unsigned32           886 Originator-Address         Grouped           887 Participants-Involved         UTF8String           888 Expires         Unsigned32           889 Message-Body         Grouped           890 WAG-Address         Address           891 WAG-PLMN-Id         OctetString           892 WLAN-Radio-Container         Grouped           893 WLAN-Technology         Unsigned32           894 WLAN-UE-Local-IPAddress         Address           895 PDG-Address         Address           896 PDG-Charging-Id         Unsigned32           897 Address-Data         UTF8String           898 Address-Domain         Grouped           899 Address-Type         Enumerated           900 TMGI         OctectString           901 Required-MBMS-Bearer-Capabilities         UTF8String           902 MBMS-Stristop-Indication         Enumerated           905 Alternative-APN         UTF8String           906 MBMS-Service-Type         Enumerated           907 MBMS-Service-Type         Enumerated           907 MBMS-Session-Identity         OctetString <t< td=""><td></td><td></td><td>ŭ</td><td></td></t<>			ŭ	
B84   PoC-Session-Type	884 PoC-Session-Type         Enumerated           885 Number-OF-Participants         Unsigned32           886 Originator-Address         Grouped           887 Participants-Involved         UTF8String           888 Expires         Unsigned32           889 Message-Body         Grouped           890 WAG-Address         Address           891 WAG-PLMN-Id         OctetString           892 WLAN-Radio-Container         Grouped           893 WLAN-Technology         Unsigned32           894 WLAN-UE-Local-IPAddress         Address           895 PDG-Address         Address           896 PDG-Charging-Id         Unsigned32           897 Address-Dotata         UTF8String           898 Address-Domain         Grouped           899 Address-Type         Enumerated           900 TMGI         OctectString           901 Required-MBMS-Bearer-Capabilities         UTF8String           902 MBMS-StartStop-Indication         Enumerated           903 MBMS-Service-Area         OctectString           904 MBMS-Service-Type         Enumerated           905 Alternative-APN         UTF8String           906 MBMS-Service-Type         Enumerated           907 MBMS-Session-Identity         OctetString				
885         Number-Of-Participants         Unsigned32           886         Originator-Address         Grouped           887         Participants-Involved         UTF8String           888         Expires         Unsigned32           889         Message-Body         Grouped           890         WAG-Address         Address           891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-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-Service-Area         OctectString           904         MBMS-Service-Area         OctectString           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated <t< td=""><td>885         Number-Of-Participants         Unsigned32           886         Originator-Address         Grouped           887         Participants-Involved         UTF8String           888         Expires         Unsigned32           889         Message-Body         Grouped           890         WAG-PLMN-Id         OctetString           891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-Technology         Unsigned32           895         PDG-Address         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Data         UTF8String           899         Address-Domain         Grouped           890         MSS-Service-Nea         OctectString           901         TMGI         Origenstring           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-Service-Area         OctectString           904</td><td></td><td></td><td></td><td></td></t<>	885         Number-Of-Participants         Unsigned32           886         Originator-Address         Grouped           887         Participants-Involved         UTF8String           888         Expires         Unsigned32           889         Message-Body         Grouped           890         WAG-PLMN-Id         OctetString           891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-Technology         Unsigned32           895         PDG-Address         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Data         UTF8String           899         Address-Domain         Grouped           890         MSS-Service-Nea         OctectString           901         TMGI         Origenstring           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-Service-Area         OctectString           904				
886         Originator-Address         Grouped           887         Participants-Involved         UTF8String           888         Expires         Unsigned32           889         Message-Body         Grouped           890         WAG-Address         Address           891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Type         Enumerated           900         TMGI         OctectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-Service-Area         OctectString           903         MBMS-Sersion-Duration         Unsigned32           905         Alternative-APN         UTF8String           906         MBMS-Sersioe-Type         Enumerated           907	886         Originator-Address         Grouped           887         Participants-Involved         UTF8String           888         Expires         Unsigned32           889         Message-Body         Grouped           890         WAG-Address         Address           891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Domain         Grouped           899         Address-Domain         Grouped           890         TMGI         OttectString           900         TMGI         OttectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-Sesion-Duration         Unsigned32           904         MBMS-Sesion-Duration         Unsigned32           905         Alter				
887         Participants-Involved         UTF8String           888         Expires         Unsigned32           889         Message-Body         Grouped           890         WAG-Address         Address           891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Type         Enumerated           900         TMGI         OctectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-Service-Area         OctectString           903         MBMS-Service-Area         OctectString           904         MBMS-Session-Duration         Unsigned32           905         Alternative-APN         UTF8String           906         MBMS-Session-Idicator         Enumerated           90	887         Participants-Involved         UTF8String           888         Expires         Unsigned32           889         Message-Body         Grouped           890         WAG-Address         Address           891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Domain         Grouped           899         Address-Type         Enumerated           900         TMGI         OctectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-StartStop-Indication         Enumerated           903         MBMS-Service-Area         OctectString           904         MBMS-Service-Type         Enumerated           905         Alternative-APN         UTF8String           906				
888 Expires         Unsigned32           889 Message-Body         Grouped           890 WAG-Address         Address           891 WAG-PLMN-Id         OctetString           892 WLAN-Radio-Container         Grouped           893 WLAN-Technology         Unsigned32           894 WLAN-UE-Local-IPAddress         Address           895 PDG-Address         Address           896 PDG-Charging-Id         Unsigned32           897 Address-Data         UTF8String           898 Address-Domain         Grouped           899 Address-Type         Enumerated           900 TMGI         OctectString           901 Required-MBMS-Bearer-Capabilities         UTF8String           902 MBMS-Service-Area         OctectString           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	888 Expires         Unsigned32           889 Message-Body         Grouped           890 WAG-Address         Address           891 WAG-PLMN-Id         OctetString           892 WLAN-Radio-Container         Grouped           893 WLAN-Technology         Unsigned32           894 WLAN-UE-Local-IPAddress         Address           895 PDG-Address         Address           896 PDG-Charging-Id         Unsigned32           897 Address-Data         UTF8String           898 Address-Domain         Grouped           899 Address-Type         Enumerated           900 TMGI         OctectString           901 Required-MBMS-Bearer-Capabilities         UTF8String           902 MBMS-StartStop-Indication         Enumerated           903 MBMS-Service-Area         OctectString           904 MBMS-Sesion-Duration         Unsigned32           905 Alternative-APN         UTF8String           906 MBMS-Service-Type         Enumerated           907 MBMS-2G-3G-Indicator         Enumerated           908 MBMS-Sesion-Identity         OctetString           909 RAI         UTF8String           910 Additional-MBMS-Trace-Info         OctetString           911 MBMS-Time-To-Data-Transfer         Unsigned32				
889         Message-Body           890         WAG-Address           891         WAG-PLMN-Id           892         WLAN-Radio-Container           893         WLAN-Technology           894         WLAN-UE-Local-IPAddress           895         PDG-Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Type         Enumerated           900         TMGI         OctectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-StartStop-Indication         Enumerated           903         MBMS-Service-Area         OctectString           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	889         Message-Body         Grouped           890         WAG-Address         Address           891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Type         Enumerated           900         TMGI         OctectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-Service-Area         OctectString           903         MBMS-Service-Area         Unsigned32           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-Service-Type         Enumerated           908         MBMS-Session-Identity         OctetString <t< td=""><td></td><td></td><td></td><td></td></t<>				
890         WAG-Address           891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Type         Enumerated           900         TMGI         OctectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-StartStop-Indication         Enumerated           903         MBMS-Service-Area         OctectString           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	890         WAG-Address         Address           891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Domain         Grouped           899         Address-Domain         Grouped           899         Address-Type         Enumerated           900         TMGI         OctectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-StartStop-Indication         Enumerated           903         MBMS-Service-Area         OctectString           904         MBMS-Session-Duration         Unsigned32           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-Session-Identity         OctetString				
891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Type         Enumerated           900         TMGI         OctectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-StartStop-Indication         Enumerated           903         MBMS-Service-Area         OctectString           904         MBMS-Session-Duration         UTF8String           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-Session-Identity         OctetString           908         MBMS-Session-Identity         OctetString           909         RAI         UTF8String	891         WAG-PLMN-Id         OctetString           892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Type         Enumerated           900         TMGI         OctectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-StartStop-Indication         Enumerated           903         MBMS-Service-Area         OctectString           904         MBMS-Session-Duration         Unsigned32           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-Service-Type         Enumerated           907         MBMS-Session-Identity         OctetString           909         RAI         UTF8String           910         Additional-MBMS-Trace-Info         OctetString <td></td> <td></td> <td></td> <td></td>				
892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Type         Enumerated           900         TMGI         OctectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-StartStop-Indication         Enumerated           903         MBMS-Service-Area         OctectString           904         MBMS-Session-Duration         Unsigned32           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-2G-3G-Indicator         Enumerated           908         MBMS-Session-Identity         OctetString           909         RAI         UTF8String	892         WLAN-Radio-Container         Grouped           893         WLAN-Technology         Unsigned32           894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Type         Enumerated           900         TMGI         OctectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-StartStop-Indication         Enumerated           903         MBMS-Session-Duration         Unsigned32           905         Alternative-APN         UTF8String           906         MBMS-Senvice-Type         Enumerated           907         MBMS-Session-Identity         OctetString           908         RAI         UTF8String           909         RAI         UTF8String           910         Additional-MBMS-Trace-Info         OctetString           911         MBMS-Session-Identity-Repetition-Number         Unsigned32           913         MBMS-Required-QoS         UTF8String </td <td></td> <td></td> <td></td> <td></td>				
893 WLAN-Technology 894 WLAN-UE-Local-IPAddress 895 PDG-Address 896 PDG-Charging-Id 897 Address-Data 898 Address-Domain 899 Address-Type 890 TMGI 900 TMGI 901 Required-MBMS-Bearer-Capabilities 902 MBMS-StartStop-Indication 903 MBMS-Service-Area 904 MBMS-Session-Duration 905 Alternative-APN 906 MBMS-Service-Type 907 MBMS-Session-Identity 908 MBMS-Session-Identity 909 RAI 909 RAI 909 Unsigned32 909 Address-Type 900 TMGI 901 OctectString 902 Unsigned32 903 MBMS-Service-Area 905 Alternative-APN 906 MBMS-Service-Type 907 MBMS-Service-Type 908 MBMS-Session-Identity 909 RAI	893 WLAN-Technology  894 WLAN-UE-Local-IPAddress  895 PDG-Address  896 PDG-Charging-Id  897 Address-Data  898 Address-Domain  898 Address-Domain  899 Address-Type  890 TMGI  900 TMGI  901 Required-MBMS-Bearer-Capabilities  902 MBMS-StartStop-Indication  903 MBMS-Service-Area  904 MBMS-Service-Area  905 Alternative-APN  906 MBMS-Service-Type  907 MBMS-Service-Type  908 MBMS-Session-Identity  909 RAI  900 MBMS-Trace-Info  901 DTF8String  902 MBMS-Service-Type  903 MBMS-Service-Type  904 MBMS-Session-Identity  905 Alternative-APN  906 MBMS-Session-Identity  907 MBMS-Session-Identity  908 MBMS-Session-Identity  909 RAI  910 Additional-MBMS-Trace-Info  911 MBMS-Time-To-Data-Transfer  912 MBMS-Session-Identity-Repetition-Number  913 MBMS-Required-QoS  914 UTF8String  915 Unsigned32  916 MBMS-Required-QoS  917 UTF8String				
894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Type         Enumerated           900         TMGI         OctectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-StartStop-Indication         Enumerated           903         MBMS-Service-Area         OctectString           904         MBMS-Session-Duration         Unsigned32           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-2G-3G-Indicator         Enumerated           908         MBMS-Session-Identity         OctetString           909         RAI         UTF8String	894         WLAN-UE-Local-IPAddress         Address           895         PDG-Address         Address           896         PDG-Charging-Id         Unsigned32           897         Address-Data         UTF8String           898         Address-Domain         Grouped           899         Address-Type         Enumerated           900         TMGI         OctectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-StartStop-Indication         Enumerated           903         MBMS-Service-Area         OctectString           904         MBMS-Session-Duration         Unsigned32           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-Session-Identity         OctetString           908         MBMS-Session-Identity         OctetString           901         Additional-MBMS-Trace-Info         OctetString           911         MBMS-Time-To-Data-Transfer         Unsigned32           912         MBMS-Session-Identity-Repetition-Number         Unsigned32           913         MBMS-Required-QoS         UTF8String				
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900         TMGI         OctectString           901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-StartStop-Indication         Enumerated           903         MBMS-Service-Area         OctectString           904         MBMS-Session-Duration         Unsigned32           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-2G-3G-Indicator         Enumerated           908         MBMS-Session-Identity         OctetString           909         RAI         UTF8String	900 TMGI OctectString 901 Required-MBMS-Bearer-Capabilities UTF8String 902 MBMS-StartStop-Indication Enumerated 903 MBMS-Service-Area OctectString 904 MBMS-Session-Duration Unsigned32 905 Alternative-APN UTF8String 906 MBMS-Service-Type Enumerated 907 MBMS-2G-3G-Indicator Enumerated 908 MBMS-Session-Identity OctetString 909 RAI UTF8String 910 Additional-MBMS-Trace-Info OctetString 911 MBMS-Time-To-Data-Transfer Unsigned32 912 MBMS-Session-Identity-Repetition-Number Unsigned32 913 MBMS-Required-QoS				
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901         Required-MBMS-Bearer-Capabilities         UTF8String           902         MBMS-StartStop-Indication         Enumerated           903         MBMS-Service-Area         OctectString           904         MBMS-Session-Duration         Unsigned32           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-2G-3G-Indicator         Enumerated           908         MBMS-Session-Identity         OctetString           909         RAI         UTF8String	901Required-MBMS-Bearer-CapabilitiesUTF8String902MBMS-StartStop-IndicationEnumerated903MBMS-Service-AreaOctectString904MBMS-Session-DurationUnsigned32905Alternative-APNUTF8String906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String	<u> </u>			
902         MBMS-StartStop-Indication         Enumerated           903         MBMS-Service-Area         OctectString           904         MBMS-Session-Duration         Unsigned32           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-2G-3G-Indicator         Enumerated           908         MBMS-Session-Identity         OctetString           909         RAI         UTF8String	902MBMS-StartStop-IndicationEnumerated903MBMS-Service-AreaOctectString904MBMS-Session-DurationUnsigned32905Alternative-APNUTF8String906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String				
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904         MBMS-Session-Duration         Unsigned32           905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-2G-3G-Indicator         Enumerated           908         MBMS-Session-Identity         OctetString           909         RAI         UTF8String	904MBMS-Session-DurationUnsigned32905Alternative-APNUTF8String906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String				
905         Alternative-APN         UTF8String           906         MBMS-Service-Type         Enumerated           907         MBMS-2G-3G-Indicator         Enumerated           908         MBMS-Session-Identity         OctetString           909         RAI         UTF8String	905Alternative-APNUTF8String906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String				
906         MBMS-Service-Type         Enumerated           907         MBMS-2G-3G-Indicator         Enumerated           908         MBMS-Session-Identity         OctetString           909         RAI         UTF8String	906MBMS-Service-TypeEnumerated907MBMS-2G-3G-IndicatorEnumerated908MBMS-Session-IdentityOctetString909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String				
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909 RAI UTF8String	909RAIUTF8String910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String				29.061 [13]
	910Additional-MBMS-Trace-InfoOctetString911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String				
910  Additional-MBMS-Trace-Info OctetString	911MBMS-Time-To-Data-TransferUnsigned32912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String				
	912MBMS-Session-Identity-Repetition-NumberUnsigned32913MBMS-Required-QoSUTF8String				
	913 MBMS-Required-QoS UTF8String				
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	914   IVIBINIS-Counting-Information   Enumerated	914	MBMS-Counting-Information	Enumerated	

915 MBMS-User-Data-Mode-Indication	Enumerated	
916 MBMS-GGSN-Address	UTF8String	
917 MBMS-GGSN-IPv6-Address	UTF8String	
918 MBMS-BMSC-SSM-IP-Address	UTF8String	
919 MBMS-BMSC-SSM-IPv6-Address	UTF8String	
920 MBMS-Flow-Identifier	OctetString	
921 CN-IP-Multicast-Distribution	Enumerated	
922 MBMS-HC-Indicator	Enumerated	
923 MBMS-Access-Indicator	Enumerated	
924 MBMS-GW-SSM-IP-Address	OctetString	
925 MBMS-GW-SSM-IPv6-Address	OctetString	
926 MBMS-BMSC-SSM-UDP-Port	OctetString	
927 MBMS-GW-UDP-Port	OctetString	
928 MBMS-GW-UDP-Port-Indicator	Enumerated	
Note: The AVP codes from 929 to 999 are reserved for TS 29.061		
1000 Bearer-Usage	Enumerated	
1001 Charging-Rule-Install	Grouped	
1002 Charging-Rule-Remove	Grouped	
1003 Charging-Rule-Definition	Grouped	
1004 Charging-Rule-Base-Name	UTF8String	
1005 Charging-Rule-Name	OctetString	
1006 Event-Trigger	Enumerated	
1007 Metering-Method	Enumerated	
1008 Offline	Enumerated	
1009 Online	Enumerated	
1010 Precedence	Unsigned32	
1011 Reporting-Level	Enumerated	
1012 TFT-Filter	IPFilterRule	
1013 TFT-Packet-Filter-Information	Grouped	
1014 ToS-Traffic-Class	OctetString	
1016 QoS-Information	Grouped	
1018 Charging-Rule-Report	Grouped	
1019 PCC-Rule-Status	Enumerated	
1020 Bearer-Identifier	OctetString	
1021 Bearer-Operation	Enumerated	
1022 Access-Network-Charging-Identifier-Gx	Grouped	
1023 Bearer-Control-Mode	Enumerated	
1024 Network-Request-Support	Enumerated	
1025 Guaranteed-Bitrate-DL	Unsigned32	
1026 Guaranteed-Bitrate-UL	Unsigned32	00 040 [40]
1027 IP-CAN-Type	Enumerated	29.212 [19]
1028 QoS-Class-Identifier	Enumerated	
1029 QoS-Negotiation	Enumerated	
1030 QoS-Upgrade	Enumerated	
1031 Rule-Failure-Code	Enumerated	
1032 RAT-Type	Enumerated	
1033 Event-Report-Indication	Grouped	
1034 Allocation-Retention-Priority	Grouped	
1035 CoA-IP-Address	Address	
1036 Tunnel-Header-Filter	IPFilterRule	
1037 Tunnel-Header-Length	Unsigned32	
1038 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	
	J.04p04	

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 Grouped	
1067 Usage-Monitoring-Information 1068 Usage-Monitoring-Level	Enumerated	
1069 Usage-Monitoring-Report	Enumerated	
1070 Usage-Monitoring-Support	Enumerated	
1070 Osage-Monitoring-Support  1071 CSG-Information-Reporting	Enumerated	
1071 CSG-Information-Reporting	Enumerated	
1073 Charging-Correlation-Indicator	Enumerated	
1074 QoS-Rule-Base-Name	UTF8String	
1075 Routing-Rule-Remove	Grouped	
1076 Routing-Rule-Definition	Grouped	
1077 Routing-Rule-Identifier	OctetString	
1078 Routing-Filter	Grouped	
1079 Routing-IP-Address	Address	
1080 Flow-Direction	Enumerated	
1081 Routing-Rule-Install	Grouped	
Note: The AVP codes from 1082 to 1099 are reserved for TS 29.212	<u> </u>	
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	
1109 Routeing-Address	UTF8String	29.140 [16]
1110 Originating-Interface	Enumerated	
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key	UTF8String	
1115 Billing-Information	UTF8String	
1116 Status	Grouped	
1117 Status-Code 1118 Status-Text	UTF8String UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	UTFOOMING	
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	00 000 :
1207 Additional-Content-Information	Grouped	32.299 [5]
1208 Addressee-Type	Enumerated	
1209 Priority	Enumerated	
1210 Message-ID	UTF8String	
1211 Message-Type	Enumerated	
1212 Message-Size	Unsigned32	
1213 Message-Class	Grouped	

1214 Class-Identifier	Enumerated
1215 Token-Text	UTF8String
1216 Delivery-Report-Requested	Enumerated
1217 Adaptations	Enumerated
1218 Applic-ID	UTF8String
1219 Aux-Applic-Info	UTF8String
1220 Content-Class	Enumerated
1221 DRM-Content	Enumerated
1222 Read-Reply-Report-Requested	Enumerated
1223 Reply-Applic-ID	UTF8String
1224 File-Repair-Supported	Enumerated
1225 MBMS-User-Service-Type	Enumerated
1226 Unit-Quota-Threshold	Unsigned32
1227 PDP-Address	Address
1228 SGSN-Address	Address
1229 PoC-Session-Id	UTF8String
1230 Deferred-Location-Even-Type	UTF8String
1231 LCS-APN	UTF8String
1232 LCS-Client-Id	Grouped
1233 LCS-Client-Dialed-By-MS	UTF8String
1234 LCS-Client-External-ID	UTF8String
1235 LCS-Client-Name	Grouped
1235 LCS-Client-Name 1236 LCS-Data-Coding-Scheme	UTF8String
1237 LCS-Format-Indicator	Enumerated
1238 LCS-Name-String	UTF8String
1239 LCS-Requestor-Id	Grouped
1240 LCS-Requestor-Id-String	UTF8String
1241 LCS-Client-Type	Enumerated
1242 Location-Estimate	OctetString
1243 Location-Estimate-Type	Enumerated
1244 Location-Type	Grouped
1245 Positioning-Data	UTF8String
1246 WLAN-Session-Id	UTF8String
1247 PDP-Context-Type	Enumerated
1248 MMBox-Storage-Requested	Enumerated
1249 Service-Specific-Info	Grouped
1250 Called-Asserted-Identity	UTF8String
1251 Requested-Party-Address	UTF8String
1252 PoC-User-Role	Grouped
1253 PoC-User-Role-IDs	UTF8String
1254 PoC-User-Role-info-Units	Enumerated
1255 Talk-Burst-Exchange	Grouped
1256 Service-Generic-Information	Grouped
1257 Service-Specific-Type	Unsigned32
1257   Service-Specific-Type	Time
1256   Event-Charging-TimeStamp   1259   Participant-Access-Priority	Enumerated
1260 Participant-Access-Priority	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
	Grouped
I 12/3 ISDP-TimeStamps	
1273 SDP-TimeStamps 1274 SDP-Offer-Timestamp	Time
1274 SDP-Offer-Timestamp	Time Time
1274 SDP-Offer-Timestamp 1275 SDP-Answer-Timestamp	Time
1274 SDP-Offer-Timestamp 1275 SDP-Answer-Timestamp 1276 AF-Correlation-Information	Time Grouped
1274 SDP-Offer-Timestamp 1275 SDP-Answer-Timestamp	Time

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

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1454 SRES	1454 SRES	OctotString	
1456   P.DN-Type		Octerstring	
1455   Tace-Data			
1456   Trace-Data			
1459   Trace-Reference			
1460   Reserved			
1461   Reserved		OctetString	
1462   Trace-Depth		-	
1463   Trace-NE-Type-List		-	
1465   Trace-Interface-List	1462 Trace-Depth	Enumerated	
1466   MC-Old	1463 Trace-NE-Type-List	OctetString	
1466   MC-Old		OctetString	
MAC-Identity	1465 Trace-Event-List		
1467   GPRS-Subscription-Data   Grouped			
1468   Complete-Data-List-Included-Indicator   Enumerated			
1469   PDP-Context			
1470   PDP-Type			
1471   3GPP2-MEID			
1472   Specific-APN-Info			
1473   C.SInfo			
1474   GMLC-Number			
1475   LCS-PrivacyException   Grouped			
1476   SS-Code			
1477   SS-Status			
1478   Notification-To-UE-User   Enumerated			
1479   External-Client   Grouped			
1480   Client-Identity   OctetString   1481   GMLC-Restriction   Enumerated   1482   PLIN-Client   Enumerated   1483   Service-Type   Grouped   1484   Service-Type   Grouped   1485   MO-LR   Grouped   1486   MO-LR   Grouped   1486   MO-LR   Grouped   1487   TS-Code   Enumerated   1487   Code   Enumerated   1488   Call-Barring-Info   Grouped   1489   Call-Barring-Info   Grouped   1490   IDR-Flags   Unsigned32   1491   ICS-Indicator   Enumerated   1492   IMS-Voice-Over-PS-Sessions-Supported   Enumerated   1492   IMS-Voice-Over-PS-Sessions-Supported   Enumerated   1493   Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions   Enumerated   1494   EPS-Location-Information   Grouped   1495   EPS-Location-Information   Grouped   1496   EPS-Location-Information   Grouped   1497   MME-User-State   Grouped   1498   GSSN-User-State   Grouped   1499   User-State   Grouped   1499   User-State   Enumerated   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   UTF8String   1505   Trace-Info   Grouped   1506   MIP-FA-RK   OctetString   1507   MIP-FA-RK-SPI   Unsigned32   1508   Reserved     1511   Reserved     1515   Trust-Relationship-Update   Enumerated     1516   Reserved     1516   Reserved	1478 Notification-To-UE-User	Enumerated	
1480   Client-Identity   OctetString   1481   GMLC-Restriction   Enumerated   1482   PLIN-Client   Enumerated   1483   Service-Type   Grouped   1484   Service-Type   Grouped   1485   MO-LR   Grouped   1486   MO-LR   Grouped   1486   MO-LR   Grouped   1487   TS-Code   Enumerated   1487   Code   Enumerated   1488   Call-Barring-Info   Grouped   1489   Call-Barring-Info   Grouped   1490   IDR-Flags   Unsigned32   1491   ICS-Indicator   Enumerated   1492   IMS-Voice-Over-PS-Sessions-Supported   Enumerated   1492   IMS-Voice-Over-PS-Sessions-Supported   Enumerated   1493   Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions   Enumerated   1494   EPS-Location-Information   Grouped   1495   EPS-Location-Information   Grouped   1496   EPS-Location-Information   Grouped   1497   MME-User-State   Grouped   1498   GSSN-User-State   Grouped   1499   User-State   Grouped   1499   User-State   Enumerated   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   UTF8String   1505   Trace-Info   Grouped   1506   MIP-FA-RK   OctetString   1507   MIP-FA-RK-SPI   Unsigned32   1508   Reserved     1511   Reserved     1515   Trust-Relationship-Update   Enumerated     1516   Reserved     1516   Reserved	1479 External-Client	Grouped	
1481   GMLC-Restriction	1480 Client-Identity		
1482   PLMN-Client			
1483   Service-Type			
1484   ServiceTypeldentity			
1485 MO-LR         Grouped           1486 Teleservice-List         Grouped           1487 TS-Code         Enumerated           1488 Call-Barring-Info         Grouped           1489 SGSN-Number         OctetString           1490 IDR-Flags         Unsigned32           1491 ICS-Indicator         Enumerated           1492 IMS-Voice-Over-PS-Sessions-Supported         Enumerated           1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions         Enumerated           1494 Last-UE-Activity-Time         Time           1495 EPS-User-State         Grouped           1496 EPS-Location-Information         Grouped           1497 MME-User-State         Grouped           1498 SGSN-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           1503 AN-Trusted         Enumerated           1504 ANID         UTF8String           1505 Trace-Info         Grouped           1505 MIP-FA-RK         OctetString           1507 MIP-FA-RK-SPI         Unsigned32           1508 Reserved         -           1510 Reserved <td></td> <td></td> <td></td>			
Teleservice-List			
1487   TS-Code			
1488 Call-Barring-Info         Grouped           1489 GSSN-Number         OctestString           1490 IDR-Flags         Unsigned32           1491 ICS-Indicator         Enumerated           1492 IMS-Voice-Over-PS-Sessions-Supported         Enumerated           1493 Identification         Enumerated           1494 Last-UE-Activity-Time         Time           1495 EPS-User-State         Grouped           1496 EPS-Location-Information         Grouped           1497 MME-User-State         Grouped           1498 GSN-User-State         Grouped           1499 User-State         Enumerated           1500 Non-3GPP-User-Data         Grouped           1501 Non-3GPP-IP-Access         Enumerated           1502 Non-3GPP-IP-Access         Enumerated           1503 NN-3GPP-IP-Access-APN         Enumerated           1504 ANID         UTF8String           1505 Trace-Info         Grouped           1506 MIP-FA-RK         OctetString           1507 Reserved         -           1510 Reserved         -           1511 Reserved         -           1512 Reserved         -           1513 Reserved         -           1516 Reserved         -           1516 Res			
1489         GGSN-Number         OctetString           1490         IDR-Flags         Unsigned32           1491         ICS-Indicator         Enumerated           1492         IMS-Voice-Over-PS-Sessions-Supported         Enumerated           1493         Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions         Enumerated           1494         Last-UE-Activity-Time         Time           1495         EPS-User-State         Grouped           1496         EPS-Location-Information         Grouped           1497         MME-User-State         Grouped           1498         GSN-User-State         Grouped           1499         User-State         Enumerated           1500         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           1507         MIP-FA-RK         Unsigned32           1508         Reserved         -			
1490   IDR-Flags         Unsigned32           1491   ICS-Indicator         Enumerated           1492   IMS-Voice-Over-PS-Sessions-Supported         Enumerated           1493   Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions         Enumerated           1494   Last-UE-Activity-Time         Time           1495   EPS-User-State         Grouped           1496   EPS-Location-Information         Grouped           1497   MME-User-State         Grouped           1498   SGSN-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           1503   AN-Trusted         Enumerated           1504   ANID         UTF8String           1505   Trace-Info         Grouped           1506   MIP-FA-RK         OctetString           1507   MIP-FA-RK         OctetString           1508   Reserved         -           1510   Reserved         -           1511   Reserved         -           1512   Reserved         -           1515   Trust-Relationship-Update         Enumerated           1516   Reserved         -			
1491 ICS-Indicator         Enumerated           1492 IMS-Voice-Over-PS-Sessions-Supported         Enumerated           1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions         Enumerated           1494 Last-UE-Activity-Time         Time           1495 EPS-User-State         Grouped           1496 EPS-Location-Information         Grouped           1497 MME-User-State         Grouped           1498 SGSN-User-State         Grouped           1499 User-State         Enumerated           1500 Non-3GPP-User-Data         Grouped           1501 Non-3GPP-IP-Access         Enumerated           1502 Non-3GPP-IP-Access-APN         Enumerated           1503 AN-Trusted         Enumerated           1504 ANID         UTF8String           1505 Trace-Info         Grouped           1506 MIP-FA-RK         OctetString           1507 MIP-FA-RK-SPI         Unsigned32           1508 Reserved         -           1510 Reserved         -           1511 Reserved         -           1512 Reserved         -           1514 Reserved         -           1515 Trust-Relationship-Update         Enumerated           1516 Reserved         -			
1492 IMS-Voice-Over-PS-Sessions-Supported         Enumerated           1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions         Enumerated           1494 Last-UE-Activity-Time         Time           1495 EPS-User-State         Grouped           1496 EPS-Location-Information         Grouped           1497 MME-User-State         Grouped           1498 SGSN-User-State         Grouped           1499 User-State         Enumerated           1500 Non-3GPP-User-Data         Grouped           1501 Non-3GPP-IP-Access         Enumerated           1502 Non-3GPP-IP-Access-APN         Enumerated           1503 AN-Trusted         Enumerated           1504 ANID         UTF8String           1505 Trace-Info         Grouped           0506 MIP-FA-RK         OctetString           1507 MIP-FA-RK         Unsigned32           1508 Reserved         -           1510 Reserved         -           1511 Reserved         -           1512 Reserved         -           1513 Reserved         -           1516 Reserved         -           1516 Reserved         -           1516 Reserved         -			
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions         Enumerated           1494 Last-UE-Activity-Time         Time           1495 EPS-User-State         Grouped           1496 EPS-Location-Information         Grouped           1497 MME-User-State         Grouped           1498 SGSN-User-State         Grouped           1499 User-State         Enumerated           1500 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           1507 MIP-FA-RK-SPI         Unsigned32           1508 Reserved         -           1509 Reserved         -           1511 Reserved         -           1512 Reserved         -           1513 Reserved         -           1514 Reserved         -           1515 Trust-Relationship-Update         Enumerated           1516 Reserved         -			
1494 Last-UE-Activity-Time         Time           1495 EPS-User-State         Grouped           1496 EPS-Location-Information         Grouped           1497 MME-User-State         Grouped           1498 SGSN-User-State         Grouped           1499 User-State         Enumerated           1500 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           1507 MIP-FA-RK-SPI         Unsigned32           1508 Reserved         -           1509 Reserved         -           1510 Reserved         -           1511 Reserved         -           1512 Reserved         -           1514 Reserved         -           1515 Trust-Relationship-Update         Enumerated           1516 Reserved         -	1492 IMS-Voice-Over-PS-Sessions-Supported		
1495         EPS-User-State         Grouped           1497         MME-User-State         Grouped           1498         SGSN-User-State         Grouped           1499         User-State         Enumerated           1500         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           1505         Trace-Info         Grouped           1506         MIP-FA-RK         OctetString           1507         MIP-FA-RK-SPI         Unsigned32           1508         Reserved         -           1509         Reserved         -           1501         Reserved         -           1511         Reserved         -           1512         Reserved         -           1514         Reserved         -           1515         Trust-Relationship-Update         Enumerated           1516         Reserved         -	1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated	
1496         EPS-Location-Information         Grouped           1497         MME-User-State         Grouped           1498         SGSN-User-State         Grouped           1499         User-State         Enumerated           1500         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           1507         MIP-FA-RK-SPI         Unsigned32           1508         Reserved         -           1510         Reserved         -           1511         Reserved         -           1512         Reserved         -           1513         Reserved         -           1515         Trust-Relationship-Update         Enumerated           1516         Reserved         -	1494 Last-UE-Activity-Time	Time	
1496         EPS-Location-Information         Grouped           1497         MME-User-State         Grouped           1498         SGSN-User-State         Grouped           1499         User-State         Enumerated           1500         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           1507         MIP-FA-RK-SPI         Unsigned32           1508         Reserved         -           1510         Reserved         -           1511         Reserved         -           1512         Reserved         -           1513         Reserved         -           1515         Trust-Relationship-Update         Enumerated           1516         Reserved         -			
1497 MME-User-State         Grouped           1498 SGSN-User-State         Grouped           1499 User-State         Enumerated           1500 Non-3GPP-User-Data         Grouped           1501 Non-3GPP-IP-Access         Enumerated           1502 Non-3GPP-IP-Access-APN         Enumerated           1503 AN-Trusted         Enumerated           1504 ANID         UTF8String           1505 Trace-Info         Grouped           1506 MIP-FA-RK         OctetString           1507 MIP-FA-RK-SPI         Unsigned32           1508 Reserved         -           1509 Reserved         -           1511 Reserved         -           1512 Reserved         -           1513 Reserved         -           1514 Reserved         -           1515 Trust-Relationship-Update         Enumerated           1516 Reserved         -			
1498 SGSN-User-State         Grouped           1499 User-State         Enumerated           1500 Non-3GPP-User-Data         Grouped           1501 Non-3GPP-IP-Access         Enumerated           1502 Non-3GPP-IP-Access-APN         Enumerated           1503 AN-Trusted         Enumerated           1504 ANID         UTF8String           1505 Trace-Info         Grouped           1506 MIP-FA-RK         OctetString           1507 MIP-FA-RK-SPI         Unsigned32           1508 Reserved         -           1510 Reserved         -           1511 Reserved         -           1512 Reserved         -           1513 Reserved         -           1515 Trust-Relationship-Update         Enumerated           1516 Reserved         -			
1499   User-State			
1500   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     1507   MIP-FA-RK-SPI   Unsigned32     1508   Reserved       1510   Reserved       1511   Reserved       1512   Reserved       1513   Reserved       1514   Reserved       1515   Trust-Relationship-Update   Enumerated     1516   Reserved       1516   Reserved       1517   Trust-Relationship-Update   Enumerated     1518   Reserved       1519   Reserved       1510   Reserved       1511   Reserved       1512   Reserved       1513   Reserved       1514   Reserved       1515   Trust-Relationship-Update   Enumerated     1516   Reserved			
1501         Non-3GPP-IP-Access         Enumerated           1502         Non-3GPP-IP-Access-APN         Enumerated           1503         AN-Trusted         Enumerated           1504         ANID         UTF8String           1505         Trace-Info         Grouped           1506         MIP-FA-RK         OctetString           1507         MIP-FA-RK-SPI         Unsigned32           1508         Reserved         -           1509         Reserved         -           1510         Reserved         -           1511         Reserved         -           1512         Reserved         -           1513         Reserved         -           1514         Reserved         -           1515         Trust-Relationship-Update         Enumerated           1516         Reserved         -	1 100   0001 01010	Litumerated	
1501         Non-3GPP-IP-Access         Enumerated           1502         Non-3GPP-IP-Access-APN         Enumerated           1503         AN-Trusted         Enumerated           1504         ANID         UTF8String           1505         Trace-Info         Grouped           1506         MIP-FA-RK         OctetString           1507         MIP-FA-RK-SPI         Unsigned32           1508         Reserved         -           1509         Reserved         -           1510         Reserved         -           1511         Reserved         -           1512         Reserved         -           1513         Reserved         -           1514         Reserved         -           1515         Trust-Relationship-Update         Enumerated           1516         Reserved         -	1500 Non-3GPP-User-Data	Grouped	
1502         Non-3GPP-IP-Access-APN         Enumerated           1503         AN-Trusted         Enumerated           1504         ANID         UTF8String           1505         Trace-Info         Grouped           1506         MIP-FA-RK         OctetString           1507         MIP-FA-RK-SPI         Unsigned32           1508         Reserved         -           1509         Reserved         -           1510         Reserved         -           1511         Reserved         -           1512         Reserved         -           1513         Reserved         -           1514         Reserved         -           1515         Trust-Relationship-Update         Enumerated           1516         Reserved         -			
1503         AN-Trusted         Enumerated           1504         ANID         UTF8String           1505         Trace-Info         Grouped           1506         MIP-FA-RK         OctetString           1507         MIP-FA-RK-SPI         Unsigned32           1508         Reserved         -           1509         Reserved         -           1511         Reserved         -           1512         Reserved         -           1513         Reserved         -           1514         Reserved         -           1515         Trust-Relationship-Update         Enumerated           1516         Reserved         -			
1504         ANID         UTF8String           1505         Trace-Info         Grouped           1506         MIP-FA-RK         OctetString           1507         MIP-FA-RK-SPI         Unsigned32           1508         Reserved         -           1509         Reserved         -           1510         Reserved         -           1511         Reserved         -           1512         Reserved         -           1513         Reserved         -           1514         Reserved         -           1515         Trust-Relationship-Update         Enumerated           1516         Reserved         -			
1505         Trace-Info         Grouped           1506         MIP-FA-RK         OctetString           1507         MIP-FA-RK-SPI         Unsigned32           1508         Reserved         -           1509         Reserved         -           1510         Reserved         -           1511         Reserved         -           1512         Reserved         -           1513         Reserved         -           1514         Reserved         -           1515         Trust-Relationship-Update         Enumerated           1516         Reserved         -			
1506 MIP-FA-RK         OctetString           1507 MIP-FA-RK-SPI         Unsigned32           1508 Reserved         -           1509 Reserved         -           1510 Reserved         -           1511 Reserved         -           1512 Reserved         -           1513 Reserved         -           1514 Reserved         -           1515 Trust-Relationship-Update         Enumerated           1516 Reserved         -			
1507 MIP-FA-RK-SPI     Unsigned32       1508 Reserved     -       1509 Reserved     -       1510 Reserved     -       1511 Reserved     -       1512 Reserved     -       1513 Reserved     -       1514 Reserved     -       1515 Trust-Relationship-Update     Enumerated       1516 Reserved     -	1505 Trace-Info		
1508 Reserved       -         1509 Reserved       -         1510 Reserved       -         1511 Reserved       -         1512 Reserved       -         1513 Reserved       -         1514 Reserved       -         1515 Trust-Relationship-Update       Enumerated         1516 Reserved       -			
1508 Reserved       -         1509 Reserved       -         1510 Reserved       -         1511 Reserved       -         1512 Reserved       -         1513 Reserved       -         1514 Reserved       -         1515 Trust-Relationship-Update       Enumerated         1516 Reserved       -	1507 MIP-FA-RK-SPI	Unsigned32	20 272 [22]
1510       Reserved       -         1511       Reserved       -         1512       Reserved       -         1513       Reserved       -         1514       Reserved       -         1515       Trust-Relationship-Update       Enumerated         1516       Reserved       -	1508 Reserved	-	29.273 [20]
1510       Reserved       -         1511       Reserved       -         1512       Reserved       -         1513       Reserved       -         1514       Reserved       -         1515       Trust-Relationship-Update       Enumerated         1516       Reserved       -	1509 Reserved	-	
1511       Reserved       -         1512       Reserved       -         1513       Reserved       -         1514       Reserved       -         1515       Trust-Relationship-Update       Enumerated         1516       Reserved       -		-	
1512 Reserved       -         1513 Reserved       -         1514 Reserved       -         1515 Trust-Relationship-Update       Enumerated         1516 Reserved       -		-	
1513Reserved-1514Reserved-1515Trust-Relationship-UpdateEnumerated1516Reserved-			
1514Reserved-1515Trust-Relationship-UpdateEnumerated1516Reserved-			
1515 Trust-Relationship-Update Enumerated 1516 Reserved -		-	
1516 Reserved -		-	
		∟numerated	
151/  Keserved -		-	
	151/  Keserved	-	

Note: The AVP codes from 1sh to 1sbys are reserved for 1s 29 2/3	N . T. AVD. 1		
1801   SGSN-Location-information	Note: The AVP codes from 1518 to 1599 are reserved for TS 29.273	Cravinad	
1602   E-UTRAN-Cell-Global-Identity			
1603   Tracking-Area-Identity			
1604 Cell-Global-Identity			
1605   Routing-Area-Identity   OctelString   1607   Service-Area-Identity   OctelString   1607   Service-Area-Identity   OctelString   1608   Geographical-Information   OctelString   1608   Geographical-Information   OctelString   1609   Geodelic-Information   OctelString   1600   Geodelic-Information   OctelString   1610   Current-Location-Retrieved   Enumerated   1611   Age-Of-Location-Information   Unsigned32   1612   Active-APN   Grouped   1613   SIPTO-Permission   Enumerated   1614   Error-Ospashitity   Enumerated   1615   US-SRVCC-Capability   Enumerated   1616   US-SRVCC-Capability   Unsigned32   1616   US-PERVICE   Unsigned32   1617   US-APPRISED   Unsigned32   1618   US-APPRISED   Unsigned32   1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32   1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32   1610   Ex-PDP-Type   OctelString   1612   Ext-PDP-Type   OctelString   1612   Ext-PDP-Type   OctelString   1613   Unsigned32   Unsigned32   1614   Error-Ostelpuration   Grouped   1615   Ext-DP-Interval   Unsigned32   1616   Unsigned32   Unsigned32   1617   Ext-PDP-Type   Unsigned32   1618   Unsigned32   Unsigned32   1619   Ext-PDP-Type   Unsigned32   1619   Unsigned32   Unsigned32   Unsigned32   1619   Unsigned32   Unsigned32   Unsigned32   1619   Unsigned32			
1606   Cocation-Area-Identity   OctelString   OctelStrin			
1607   Service-Area-Identity			
1608   Geographical-Information			
1609   Geodetic-Information			
1611   Age-Of-Location-Information			
1611 Age-Of-Location-Information		<u> </u>	
1612   Active-APN			
1613   SIPTO-Permission			
1614   Error-Diagnostic   Enumerated			
1615   LE-SRVCC-Capability			
1816 MPS-Priority			
1617   VPLMN-LIPA-Allowed			
Enumerated		·	
1619   Subscribed-Periodic-RAU-TAU-Timer   Unsigned32   1620   Ext-PDP-Type   OcteString   1621   Ext-PDP-Address   Address   Address   1622   MDT-Configuration   Grouped   1623   Job-Type   Enumerated   1623   Job-Type   Enumerated   1624   Area-Scope   Grouped   1625   List-Or-Measurements   Unsigned32   1626   Report-Interval   Enumerated   1627   Ext-PDP-Amount   Enumerated   1628   Report-Amount   Enumerated   1628   Report-Interval   Enumerated   1629   Event-ThresholdRSRQ   Unsigned32   1630   Event-ThresholdRSRQ   Unsigned32   1631   Unsigned32   Unsigned32   1632   Logging-Interval   Enumerated   1632   Logging-Unation   Enumerated   1633   Relay-Node-Indicator   Enumerated   1634   Reserved   Enumerated   1635   PUR-Flags   Unsigned32   1636   Reserved   Enumerated   1637   Reserved   Enumerated   1638   CLR-Flags   Unsigned32   1639   Reserved   Enumerated   1640   Reserved   Enumerated   1641   Reserved   Enumerated   1642   Reserved   Enumerated   1643   Reserved   Enumerated   1644   Reserved   Enumerated   1645   Reserved   Enumerated   1646   Reserved   Enumerated   1647   Reserved   Enumerated   1648   Reserved   Enumerated   1649   Reserved   Enumerated   1640   Reserved   Enumerated   1641   Reserved   Enumerated   1642   Reserved   Enumerated   1643   Reserved   Enumerated   1644   Reserved   Enumerated   1645   Reserved   Enumerated   1646   Reserved   Enumerated   1647   Reserved   Enumerated   1648   Reserved   Enumerated   1650   Reserved   Enumerated   1651   GMLC-Info   Grouped   1652   GMLC-Name   DiameterIdentity   1653   GMLC-Realm   DiameterIdentity   1653   GMLC-Realm   DiameterIdentity   1654   Coding-Scheme   Intege32   1655   Crouped   Interface-Port   UTF8String   1605   Interface-Fort   UTF8String   1606   Interface-Fort   UTF8String   1607   SM-Message-Type   Enumerated   1608   Enumerated   UTF8String   1609   Code   Interface-Fort   Enumerated   1600   Code   Enumerated   UTF8String   1600   Code   Enumerated   1601   Enumerated   UTF8String   1602   Enumerated   UTF8Str			
1620   Ext-PDP-Type			
1621   Ext-PDP-Address			
1622   MDT-Configuration			
Enumerated   Grouped   G			
1625   List-Of-Measurements   Unsigned32   1626   Reporting-Trigger   Unsigned32   1627   Report-Interval   Enumerated   1628   Report-Interval   Enumerated   1629   Event-ThresholdRSRP   Unsigned32   1630   Event-ThresholdRSRQ   Unsigned32   1631   Logging-Interval   Enumerated   1632   Logging-Duration   Enumerated   1633   Relay-Node-Indicator   Enumerated   1634   MDT-User-Consent   Enumerated   1635   PUR-Flags   Unsigned32   1636   Reserved   - 1637   Reserved   - 1638   CLR-Flags   Unsigned32   1639   Reserved   - 1640   Reserved   - 1641   Reserved   - 1642   Reserved   - 1644   Reserved   - 1644   Reserved   - 1644   Reserved   - 1645   Reserved   - 1646   Reserved   - 1646   Reserved   - 1647   Reserved   - 1648   Reserved   - 1649   Reserved   - 1640   Reserved   - 1641   Reserved   - 1645   Reserved   - 1646   Reserved   - 1646   Reserved   - 1647   Reserved   - 1648   Reserved   - 1649   Reserved   - 1640   Reserved   - 1640   Reserved   - 1641   Reserved   - 1642   Reserved   - 1643   Reserved   - 1644   Reserved   - 1645   Reserved   - 1646   Reserved   - 1646   Reserved   - 1647   Reserved   - 1648   Reserved   - 1650   Reserved   - 1651   GMLC-Info   Grouped   1652   GMLC-Name   DiameterIdentity   1653   GMLC-Realm   DiameterIdentity   1655   DiameterIdentity   1656   Reserved   - 1657   Reserved   - 1658   Reserved   - 1659   Reserved   - 1650   Reserved   - 1651   Reserved   - 1652   Reserved   - 1653   Reserved   - 1654   Reserved   - 1655   Reserved   - 1656   Reserved   - 1657   Reserved   - 1658   Reserved   - 1659   Reserved   - 1650   Reserved   - 1650			
1625   List-Of-Measurements   Unsigned32   1627   Report-Intiger   Unsigned32   1627   Report-Interval   Enumerated   1628   Report-Interval   Enumerated   1628   Report-Intreval   Enumerated   1629   Event-ThresholdRSRP   Unsigned32   1631   Logging-Interval   Enumerated   1632   Logging-Interval   Enumerated   1632   Logging-Duration   Enumerated   1632   Logging-Duration   Enumerated   1633   Relay-Node-Indicator   Enumerated   1634   MDT-User-Consent   Enumerated   1635   PUR-Flags   Unsigned32   1636   Reserved     1638   CLR-Flags   Unsigned32   1639   Reserved     1630   Reserved     1631   Reserved     1634   Reserved     1635   Reserved     1636   Reserved     1637   Reserved     1638   Reserved     1639   Reserved     1630   R			
Reporting-Trigger			
Report-Interval   Enumerated   1628   Report-Amount   Enumerated   1629   Event-ThresholdRSRP   Unsigned32   1630   Event-ThresholdRSRQ   Unsigned32   1631   Logging-Interval   Enumerated   1632   Logging-Duration   Enumerated   1632   Logging-Duration   Enumerated   1633   Relay-Node-Indicator   Enumerated   1634   MDT-User-Consent   Enumerated   1635   PUR-Flags   Unsigned32   1636   Reserved     1637   Reserved     1638   CLR-Flags   Unsigned32   1639   Reserved     1638   CLR-Flags   Unsigned32   1639   Reserved     1640   Reserved     1641   Reserved     1642   Reserved     1644   Reserved     1645   Reserved     1646   Reserved     1648   Reserved     1649   Reserved     1649   Reserved     1649   Reserved     1649   Reserved     1649   Reserved     1650   Reserved     1651   GMLC-Info   Grouped   1652   GMLC-Realm   DiameterIdentity   1653   GMLC-Realm   DiameterIdentity   1653   GMLC-Realm   DiameterIdentity   1653   GMLC-Realm   DiameterIdentity   1650   Reserved   -   1651   Grouped   1652   Grouped   1654   Transfering   1654   Transfering   1655   Transfering   1656   1657			
Report-Amount			29.272 [21]
1629   Event-ThresholdRSRP			
1630   Event-ThresholdRSRQ			
1631   Logging-Interval			
1632   Logging-Duration		·	
1633   Relay-Node-Indicator   Enumerated   1634   MDT-User-Consent   Enumerated   1635   PUR-Flags   Unsigned32   1636   Reserved   - 1637   Reserved   - 1638   CLR-Flags   Unsigned32   1639   Reserved   - 1640   Reserved   - 1641   Reserved   - 1642   Reserved   - 1644   Reserved   - 1645   Reserved   - 1646   Reserved   - 1647   Reserved   - 1648   Reserved   - 1649   Reserved   - 1649   Reserved   - 1640   Reserved   - 1641   Reserved   - 1642   Reserved   - 1643   Reserved   - 1644   Reserved   - 1645   Reserved   - 1646   Reserved   - 1646   Reserved   - 1647   Reserved   - 1648   Reserved   - 1649   Reserved   - 1649   Reserved   - 1650   Reserved   - 1650   Reserved   - 1651   GMLC-Info   Grouped   1652   GMLC-Name   DiameterIdentity   1653   GMLC-Realm   DiameterIdentity   1654   GMLC-Realm   DiameterIdentity   1655   GMLC-Realm   DiameterIdentity   1656   Data-Coding-Scheme   Integer32   2000   SMS-Information   Grouped   2001   Data-Coding-Scheme   Grouped   2002   Destination-Interface   Grouped   2003   Interface-Id   UTF8String   2004   Interface-Port   UTF8String   2005   Interface-Type   Enumerated   2006   Interface-Type   Enumerated   2007   SM-Message-Type   Enumerated   2007   SM-Message-Type   Enumerated			
1634   MDT-User-Consent			
1635 PUR-Flags         Unsigned32           1636 Reserved         -           1637 Reserved         -           1638 CLR-Flags         Unsigned32           1639 Reserved         -           1640 Reserved         -           1641 Reserved         -           1642 Reserved         -           1643 Reserved         -           1644 Reserved         -           1645 Reserved         -           1646 Reserved         -           1647 Reserved         -           1648 Reserved         -           1649 Reserved         -           1640 Reserved         -           1647 Reserved         -           1648 Reserved         -           1649 Reserved         -           1650 Reserved         -           1651 GMLC-Info         Grouped           1652 GMLC-Name         DiameterIdentity           1653 GMLC-Name         DiameterIdentity           1065 Reserved         -           1653 GMLC-Realm         DiameterIdentity           Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272.           2000 SMS-Information         Grouped           2001 Data-Coding-Scheme         <			
1636   Reserved			
1637   Reserved		-	
1638   CLR-Flags		-	
1639   Reserved		Unsigned32	
1640   Reserved		-	
1642   Reserved		-	
1642   Reserved	1641 Reserved	-	
1643         Reserved         -           1644         Reserved         -           1645         Reserved         -           1646         Reserved         -           1647         Reserved         -           1648         Reserved         -           1650         Reserved         -           1651         GMLC-Info         Grouped           1652         GMLC-Name         DiameterIdentity           1653         GMLC-Realm         DiameterIdentity           Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272.         Code           2000         SMS-Information         Grouped           2001         Data-Coding-Scheme         Integer32           2002         Destination-Interface         Grouped           2003         Interface-Id         UTF8String           2004         Interface-Port         UTF8String           2005         Interface-Text         UTF8String           2006         Interface-Type         Enumerated           2007         SM-Message-Type         Enumerated		-	
1644 Reserved         -           1645 Reserved         -           1646 Reserved         -           1647 Reserved         -           1648 Reserved         -           1649 Reserved         -           1650 Reserved         -           1651 GMLC-Info         Grouped           1652 GMLC-Name         DiameterIdentity           1653 GMLC-Realm         DiameterIdentity           Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272.         Grouped           2000 SMS-Information         Grouped           2001 Data-Coding-Scheme         Integer32           2002 Destination-Interface         Grouped           2003 Interface-Id         UTF8String           2004 Interface-Port         UTF8String           2005 Interface-Text         UTF8String           2006 Interface-Type         Enumerated           2007 SM-Message-Type         Enumerated		-	
1646 Reserved         -           1647 Reserved         -           1648 Reserved         -           1649 Reserved         -           1650 Reserved         -           1651 GMLC-Info         Grouped           1652 GMLC-Name         DiameterIdentity           1653 GMLC-Realm         DiameterIdentity           Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272.         Code Integer32           2000 SMS-Information         Grouped           2001 Data-Coding-Scheme         Integer32           2002 Destination-Interface         Grouped           2003 Interface-Id         UTF8String           2004 Interface-Port         UTF8String           2005 Interface-Text         UTF8String           2006 Interface-Type         Enumerated           2007 SM-Message-Type         Enumerated	1644 Reserved	-	
1647         Reserved         -           1648         Reserved         -           1649         Reserved         -           1650         Reserved         -           1651         GMLC-Info         Grouped           1652         GMLC-Name         DiameterIdentity           1653         GMLC-Realm         DiameterIdentity           Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272.         Grouped           2001         SMS-Information         Grouped           2001         Data-Coding-Scheme         Integer32           2002         Destination-Interface         Grouped           2003         Interface-Id         UTF8String           2004         Interface-Port         UTF8String           2005         Interface-Text         UTF8String           2006         Interface-Type         Enumerated           2007         SM-Message-Type         Enumerated	1645 Reserved	-	
1647         Reserved         -           1648         Reserved         -           1649         Reserved         -           1650         Reserved         -           1651         GMLC-Info         Grouped           1652         GMLC-Name         DiameterIdentity           1653         GMLC-Realm         DiameterIdentity           Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272.         Grouped           2001         SMS-Information         Grouped           2001         Data-Coding-Scheme         Integer32           2002         Destination-Interface         Grouped           2003         Interface-Id         UTF8String           2004         Interface-Port         UTF8String           2005         Interface-Text         UTF8String           2006         Interface-Type         Enumerated           2007         SM-Message-Type         Enumerated	1646 Reserved	-	
1649         Reserved         -           1650         Reserved         -           1651         GMLC-Info         Grouped           1652         GMLC-Name         DiameterIdentity           1653         GMLC-Realm         DiameterIdentity           Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272.         Grouped           2000         SMS-Information         Grouped           2001         Data-Coding-Scheme         Integer32           2002         Destination-Interface         Grouped           2003         Interface-Id         UTF8String           2004         Interface-Port         UTF8String           2005         Interface-Text         UTF8String           2006         Interface-Type         Enumerated           2007         SM-Message-Type         Enumerated		-	
1649         Reserved         -           1650         Reserved         -           1651         GMLC-Info         Grouped           1652         GMLC-Name         DiameterIdentity           1653         GMLC-Realm         DiameterIdentity           Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272.         Grouped           2000         SMS-Information         Grouped           2001         Data-Coding-Scheme         Integer32           2002         Destination-Interface         Grouped           2003         Interface-Id         UTF8String           2004         Interface-Port         UTF8String           2005         Interface-Text         UTF8String           2006         Interface-Type         Enumerated           2007         SM-Message-Type         Enumerated		-	
1650 Reserved		-	
1651 GMLC-Info Grouped   DiameterIdentity		-	
1652 GMLC-Name   DiameterIdentity		Grouped	
1653 GMLC-Realm   DiameterIdentity		DiameterIdentity	
Note: The AVP codes from 1654 to 1699 are reserved for TS 29.272.           2000 SMS-Information         Grouped           2001 Data-Coding-Scheme         Integer32           2002 Destination-Interface         Grouped           2003 Interface-Id         UTF8String           2004 Interface-Port         UTF8String           2005 Interface-Text         UTF8String           2006 Interface-Type         Enumerated           2007 SM-Message-Type         Enumerated		DiameterIdentity	
2001 Data-Coding-Scheme         Integer32           2002 Destination-Interface         Grouped           2003 Interface-Id         UTF8String           2004 Interface-Port         UTF8String           2005 Interface-Text         UTF8String           2006 Interface-Type         Enumerated           2007 SM-Message-Type         Enumerated			
2002         Destination-Interface         Grouped           2003         Interface-Id         UTF8String           2004         Interface-Port         UTF8String           2005         Interface-Text         UTF8String           2006         Interface-Type         Enumerated           2007         SM-Message-Type         Enumerated			
2003 Interface-Id         UTF8String           2004 Interface-Port         UTF8String           2005 Interface-Text         UTF8String           2006 Interface-Type         Enumerated           2007 SM-Message-Type         Enumerated	2001 Data-Coding-Scheme	Integer32	
2004 Interface-Port         UTF8String         32.299 [5]           2005 Interface-Text         UTF8String           2006 Interface-Type         Enumerated           2007 SM-Message-Type         Enumerated			
2005 Interface-TextUTF8String2006 Interface-TypeEnumerated2007 SM-Message-TypeEnumerated			
2006 Interface-TypeEnumerated2007 SM-Message-TypeEnumerated			32.299 [5]
2007 SM-Message-Type Enumerated			
2008 Originating-SCCP-Address Address			
	1		

2009 Originator-Interface	Grouped	
2010 Recipient-SCCP-Address	Address	
2011 Reply-Path-Requested	Enumerated	
2012 SM-Discharge-Time	Time	
2013 SM-Protocol-ID	OctetString	
2014 SM-Status	OctetString	
2015 SM-User-Data-Header	OctetString	
2016 SMS-Node	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	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-Received-Address	Grouped	
2029 SM-Service-Type	Enumerated	
2030 MMTel-Information	Grouped	
2031 MMTel-Sservice-Type	Unsigned32	
2032 Service-Mode	Unsigned32	
2033 Subscriber-Role	Enumerated	
2034 Number-Of-Diversions	Unsigned32	
2035 Associated-Party-Address	UTF8String	
2036 SDP-Type	Enumerated	
2037 Change-Condition	Integer32	
2038 Change-Time	Time	
2039 Diagnostics	Integer32	
2040 Service-Data-Container	Grouped	
2041 Start-Time	Time	
2042 Stop-Time	Time	
2043 Time-First-Usage	Time	
2044 Time-Last-Usage	Time	
2045 Time-Usage	Unsigned32	
2046 Traffic-Data-Volumes	Grouped	
2047 Serving-Node-Type	Enumerated	
2048 Supplementary-Service	Grouped	
2049 Participant-Action-Type	Enumerated	
2050 PDN-Connection-Charging-ID	Unsigned32	
	Ü	
2051 Dynamic-Address-Flag	Enumerated	
2052 Accumulated-Cost	Grouped	
2053 AoC-Cost-Information	Grouped	
2054 AoC-Information	Grouped	
2055 AoC-Request-Type	Enumerated	
2056 Current-Tariff	Grouped	
2057 Next-Tariff	Grouped	
2058 Rate-Element	Grouped	
2059 Scale-Factor	Grouped	
2060 Tariff-Information		
	Grouped	
2061 Unit-Cost	Grouped	
2062 Incremental-Cost	Grouped	
2063 Local-Sequence-Number	Unsigned32	
2064 Node-Id	UTF8String	
2065 SGW-Change	Enumerated	
2066 Charging-Characteristic-Selection-Mode	Enumerated	
2067 SGW-Address	Address	
2068 Dynamic-Address-Flag-Extension	Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299	Litationaled	
NOTE. THE AVE COURS HOLL 2003 TO 2033 ALC LESCIVED TO 13 32.299		
2100 reconved		
2100 reserved	-	
2101 Application-Server-ID	- UTF8String	32.299 [5]
	- UTF8String Enumerated Unsigned32	32.299 [5]

2104 Delivery-Status	UTF8String	
2105 reserved	-	
2106 reserved	-	
2107 reserved	-	
2108 reserved	-	
2109 reserved	-	
2110 IM-Information	Grouped	
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112 Number-Of-Messages-Successfully-Sent	Unsigned32	
2113 Total-Number-Of-Messages-Exploded	Unsigned32	
2114 Total-Number-Of-Messages-Sent	Unsigned32	
2115 DCD-Information	Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String Enumerated	
2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299	Enumerated	
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
2202 Subsession-Id	Unsigned32	29.215 [22]
2203 Subsession-Operation	Enumerated	20.210 [22]
2204 Multiple-BBERF-Action	Enumerated	
Note: The AVP codes from 2205 to 2299 are reserved for TS 29.215		
2300 reserved	-	
2301 SIP-Request-Timestamp-Fraction	Unsigned32	
2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2303 Online-Charging-Flag	Enumerated	
2304 CUG-Information	OctetString	
2305 Real-Time-Tariff-Information	Grouped	
2306 Tariff-XML	UTF8String	
2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
2309 Account-Expiration	Time	
2310 AoC-Format	Enumerated	
2311 AoC-Service	Enumerated	32.299 [5]
2312 AoC-Service-Obligatory-Type	Grouped	02.200 [0]
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved		
2317 CSG-Access-Mode 2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Enumerated Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator	Enumerated	
2323 MBMS-Charged-Party	Enumerated	
Note: The AVP codes from 2323 to 2399 are reserved for TS 32.299	Litamoratoa	
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets	Unsigned32	29.173 [25]
2405 GMLC-Address	Address	
2406 Additional-Serving-Node	Grouped	
2407 PPR-Address	Address	
2408 MME-Realm	DiameterIdentity	
Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173		
2500 SLg-Location-Type	Enumerated	
2501 LCS-EPS-Client-Name	Grouped	
2502 LCS-Requestor-Name	Grouped	
2503 LCS-Priority	Unsigned32	29.172 [24]
2504 LCS-QoS	Grouped	. ,
2505 Horizontal-Accuracy	Unsigned32	
2506 Vertical-Accuracy	Unsigned32 Enumerated	
2507 Vertical-Requested	Enumerated	

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

#### 8 Experimental result codes

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

#### 8.1 3GPP specific result codes

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

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

#### 8.1.1 Informational

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

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

#### 8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

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

#### 8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS
4100	DIAMETER USER DATA NOT AVAILABLE	29.329 [4]
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS	
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.	
4121	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]
Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061.	
4141	DIAMETER_PCC_BEARER_EVENT	20 242 [40]
4142	DIAMETER_BEARER_EVENT	29.212 [19]
Note: The Experime	ntal Result Codes from 4142 to 4160 are reserved for the TS 29.212	
		32.299 [5]
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.	
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	29.272 [21]
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.	
4201	DIAMETER_ERROR_ABSENT_USER	29.173 [25]
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.	
4221	DIAMETER_ERROR_UNREACHABLE_USER	
4222	DIAMETER_ERROR_SUSPENDED_USER	
4223	DIAMETER_ERROR_DETACHED_USER	29.172 [24]
4224	DIAMETER_ERROR_POSITIONING_DENIED	23.172 [24]
4225	DIAMETER_ERROR_POSITIONING_FAILED	
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT	
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.	

#### 8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	29.229 [2]
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	
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
Troto: The Expe	Third that it tooks to do to the total and its office it the its	32.299 [5]
Note: The Expe	rimental Result Codes from 5021 to 5040 are reserved for the T	
5041	DIAMETER ERROR USER NO WLAN SUBSCRIPTION	J 02.200.
5042	DIAMETER ERROR W-APN UNUSED BY USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC	
3043	RIPTION	29.234 [6]
5044	DIAMETER ERROR USER NO W-APN SUBSCRIPTION	
5044	DIAMETER_ERROR_USER_NO_W-AFN_SUBSCRIPTION DIAMETER_ERROR_UNSUITABLE_NETWORK	
	erimental Result Codes from 5046 to 5060 are reserved for the TS	2 20 224
		5 <u>29.234.</u>
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	29.209 [8],
5064	DUPLICATED_AF_SESSION	29.211 [17],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.214 [18]
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
	erimental Result Codes from 5068 to 5080 are reserved for TS 29	9.209, TS 29.211
	TS 29.214.	
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	29.329 [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	
Note: The Expe	erimental 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]
	E	
5123	DIAMETER ERROR SERVICE AREA	
	erimental Result Codes from 5124 to 5139 are reserved for the TS	S 29.061
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER PCC RULE EVENT	
5143	DIAMETER ERROR BEARER NOT AUTHORIZED	
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	29.212 [19]
0144	ID	23.212[13]
5145	DIAMETER QOS RULE EVENT	
5146		
5146	reserved	
	DIAMETER_ERROR_CONFLICTING_REQUEST	2 20 242
	erimental Result Codes from 5144 to 5159 are reserved for the TS	o 29.212.
5401	DIAMETER_ERROR_IMPI_UNKNOWN	00 400 57
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	2.00.400
•	erimental Result Codes from 5404 to 5419 are reserved for the TS	
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	29.272 [21]

5421	DIAMETER_ERROR_RAT_NOT_ALLOWED						
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN						
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE						
Note: The Expe	erimental Result Codes from 5424 to 5449 are reserved for the TS	S 29.272.					
5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI						
	ON	20 272 [20]					
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION 29.273 [20]						
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED						
Note: The Expe	erimental Result Codes from 5453 to 5469 are reserved for the TS	S 29.273.					
5470	DIAMETER_ERROR _SUBSESSION	29.215 [22]					
Note: The Experimental Result Codes from 5471 to 5489 are reserved for the TS 29.215.							
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET	29.173 [25]					
	WORK						
Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173.							

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

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

#### A.1 Application identifiers

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

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

#### A.2 Command codes

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

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

#### A.3 AVP codes

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

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

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

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

#### A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

# Annex B (informative): Change history

Deta	TCO."	TCC D	CD	D	Change history	Ol-l	Marc
Date	TSG #	TSG Doc.	CR	Kev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292	004		Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25	NP-040401			Correction of Charging application reference	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Removal of User Data Request Type AVP	6.0.0	6.1.0
2004-09	CN#25	NP-040412		1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26	NP-040579			Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12	CN#26	NP-040580		1	Reservation of command code 310	6.1.0	6.2.0
2004-12	CN#26	NP-040579		1	Addition of Gmb interface	6.1.0	6.2.0
2004-12	CN#26	NP-040600	010	2	Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces	6.1.0	6.2.0
2004-12	CN#26	NP-040579	011		Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579	012		Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047		1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039			Allocations for Gx interface		
	İ	NP-050039			Allocations for Gmb interface	i	
		NP-050039			Allocations for MMS, MM10 Interface	i	
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.3.0	6.4.0
2003 00	01#20	CP-050196		1	Addition of Maximum-Number-Accesses AVP	0.5.0	0.4.0
2005-09	CT#29	CP-050196		1	Private identities on the Cx	6.4.0	6.5.0
2000-09	01#28	CP-050440 CP-050310		-	Addition of Pr reference point to TS 29.230	0.4.0	0.5.0
		CP-050310 CP-050310				ł	
					Error code cleanup Addition of Rx ref. point and renaming of Experimental Result	{	
		CP-050310	0056		Codes	<u> </u>	
2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-12	CT#30	CP-050624	0058		Addition of GBA-Type AVP	7.0.0	7.1.0
		CP-050612	0063		Additional Gmb AVP Allocation	Ī	
		CP-050612	0065		Reservation of AVP codes for 32.299	İ	
		CP-050625			Management of Sh subscriptions	i	
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
2000 00	01#01	CP-060084			User-Data in the response to Sh-Subs-Notif	1	7.2.0
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure	1	
2006-06	CT#32	CP-060302			S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417		3	New AVP Code	7.3.0	7.4.0
2000-03	01#33	CP-060417		J	Errors to be sent in response to Sh-Notif	7.3.0	7.4.0
	l	CP-060417			Definition of specific Diameter codes for DSAI	ł	
2006-12	CT#34	CP-060417		4	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
2006-12	C1#34			1		7.4.0	7.5.0
		CP-060562			Addition of Diameter Error Code for Emergency Purposes Allocation of new AVP codes for Gmb	ł	
	ļ	CP-060555				ł	
		CP-060555			AVP code allocations for Rf and Ro interfaces		
	07::07	CP-060566			Allocation of Success Result Code Range for Gi Interface		
2007-03	CT#35	CP-070020			C3 requested addition of new AVP code values to 3GPP TS 29.230	7.5.0	7.6.0
		CP-070020			Allocation of new AVP code for DSAI-Tag AVP	J	
		CP-070020			Allocation of Experimental-Result-Code AVP for Gi Interface	<u>L_</u>	
2007-06	CT#36	CP-070318	0096		Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312			Experimental-Result-Codes for Gmb interface	Ī	
		CP-070312			Correction of Diameter AVP code allocation	Ī	
2007-09	CT#37	CP-070527			Application ID for Gx protocol	7.7.0	7.8.0
2007-12	CT#38	CP-070743			AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
	000	0. 0.00	0105		Allocation of 3GPP specific AVP codes and Experimental	1.10.0	1.0.0
					Result Codes for Gx protocol	<u> </u>	
2007-12	CT#38	CP-070755	0101	4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
			0103		AVP code reservation for 32.299 in Rel-8	Ī	
2008-03	CT#39	CP-080015			Correction of reference to TS 29.140	8.0.0	8.1.0
		CP-080019			AVP code reservation for TS 32.299 in Rel-8	1	
		CP-080019			Wildcarded Public User Identities	i	
		CP-080191		1	Correction on AVP code allocation reservation for TS 32.299 in	1	
					Rel-7	1	
		CP-080204			Correction on AVP code allocation reservation for TS 32.299		
2008-06	CT#40	CP-080267		1	A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-09	CT#41	CP-080456			Emergency Public User Identity Removal	8.2.0	8.3.0
		LCD 000400	0101	1	Support of "Loose-Route" indication from HSS	i	
2008-09	CT#41	CP-080460	0121		Support of Loose-Route indication from HSS		

2008-09	CT#41	CP-080463	0123		Cx Impacts of IMS Restoration Procedures (New AVP Codes	7	ı
2006-09	C1#41	CF-060463	0123		Assignment)		
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	0127		Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691			Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044		1	Update for ReadyForSM	8.4.0	8.5.0
2009-03 2009-03	CT#43 CT#43	CP-090044 CP-090026		1	Handling LCS Subscription Data Update for Restoration	8.4.0 8.4.0	8.5.0 8.5.0
2009-03	CT#43	CP-090026 CP-090024			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090024		2	Applids for Gxx and S9 Applid 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			Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	Location of Permanent Failure result code range for the S9	8.4.0	8.5.0
2000 02	CT#42	CD 000034	01.11		application AVPs for TS 29.273	0.4.0	8.5.0
2009-03 2009-03	CT#43 CT#43	CP-090024 CP-090024		1	Error code allocation for authentication failure	8.4.0 8.4.0	8.5.0
2009-05	CT#44	CP-090299		4	Update of the AVP Codes	8.5.0	8.6.0
2000 00	01,711	CP-090299		i -	AVP code reservation for TS 32.299	0.0.0	0.0.0
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"	1	
			0146		Removal of Requesting Node Type from AIR	1	
		CP-090299			S6b Application ID	]	
2009-09	CT#45	CP-090530	0149		Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
		CP-090530			AVP code allocation for TS 29.212	]	
		CP-090531			Update of the AVP type for the User-Id	<u> </u>	1
		CP-090531			Trace Depth per session		
2009-09 2009-12	CT#45	CP-090557		1	AVP code range for charging ICS-Flag	8.7.0	9.0.0
2009-12	CT#46	CP-090800 CP-091032		1	From GMLC-Address to GMLC-Number	9.0.0	9.1.0
		CF-091032	0160		Session-Priority AVP		
			0163	2	Introduction of SLh application related AVPs and Experimental	1	
					Result codes		
			0166		Missing AVP error codes		
		CP-090797	0167	1	Introduction of SLg application related AVPs and Application		
2040.00	OT#47	00.400004	0.150		Identifier	0.4.0	0.00
2010-03	CT#47	CP-100031 CP-100034			Wildcarded Public Identity  Correction on AVP code allocation reservation for TS 32.299 in	9.1.0	9.2.0
		CP-100034	0100	'	Rel-9		
		CP-100046	0169	1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109		
		CP-100046			Error codes in 29.172 for SLg		
		CP-100048		1	AVPs in 29.272 for TADS support		
		CP-100040			Error codes in 29.272 for Unknown MME		
		CP-100236		4	EPS Subcsriber State and Location Information Request		
		CP-100033 CP-100046	0180		One time notification AVP allocation Addition of the LCS-QoS-Class attribute value		
		CP-100046 CP-100175			Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
2010-06	CT#48	CP-100263			AVP Codes for PCC	9.2.0	9.3.0
			0183		EPS state and location retrieval		
		CP-100287	0186		SGmb Application ID		
		CP-100277	0190		New APVs in S6a protocol		
2010-09	CT#49	CP-100463	0197	1	Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.0
		CD 100464	0406		interfaces  AVR Codes Allegation for BCC	-	
2010-09	CT#49	CP-100464 CP-100465		1	AVP Codes Allocation for PCC SIPTO Permission Indicator	9.4.0	10.0.0
2010-03	U1##3	CP-100465			Location data including only serving node address	∂. <b>⊣</b> .∪	10.0.0
		CP-100466			AVP for Update-Eff feature	1	
2010-12	CT#50	CP-100699			Enhanced SRVCC Subscriber Data	10.0.0	10.1.0
		CP-100687	0201		Allocate codes for AVPs on eMPS	]	
		CP-100683	0200	1	Allocate codes for AVPs on LIPA	1	
		CP-100688			Periodic TAU/RAU timer in HSS subscription	1	
2014 02	CT#54	CP-100846		1	S6a Error Diagnostic	10.1.0	10.2.0
2011-03	CT#51	CP-110051 CP-110054			PDP-Address correction Essential correction on the value type of the ELP Application	10.1.0	10.2.0
		01 -110004	0213		AVPs		
		CP-110087	0207	2	Minimization of Drive Tests (MDT)	1	İ
		CP-110088	0209	1	Relay Node Indicator AVPs	1	<u> </u>
2011-06	CT#52	CP-110349			Handling of RTR for Emergency Registration	10.2.0	10.3.0
		CP-110347		1	Add AVPs from QSPEC cleanup		
	i i		10226	1	MIPv4 security parameters on the STa and S6b interfaces	1	
		CP-110359				-	i i
		CP-110380	0216		MDT user consent		Ì
		CP-110380 CP-110370	0216 0223	1	MDT user consent AVP Code Allocation for Pre-paging	- - -	
2011-09	CT#53	CP-110380	0216 0223 0227		MDT user consent	10.3.0	10.4.0

		CP-110554	0244	1	AVP code alignment with 29.214		
		CP-110552	_		Experimental Result Code Alignment with 29.061		
		CP-110555	0252		Failure code and AVP code alignment with 29.212		
		CP-110722	0257	2	Priviledged sender		
2011-12	CT#54	CP-110775	0261		New AVP codes for MBMS IP unicast encapsulation	10.4.0	10.5.0
	İ	CP-110775	0264		New AVP codes for MBMS IP multicast encapsulation		İ
		CP-110786	0270	1	MME-Identity AVP code allocation		İ
		CP-110781	0280	1	Restoration of Wildcarded-IMPU AVP		
2012-03	CT#55	CP-120025	0292		Codes Allocation for AVPs on Initial Attach	10.5.0	10.6.0
2012-06	CT#56	CP-120219	0303		Duplicated AVP names	10.6.0	10.7.0
		CP-120225	0295	1	Trust Relationship Indication		
2012-09	CT#57	CP-120666	0311	1	GMLC-Name	10.7.0	10.8.0
2012-12	CT#58	CP-120716	0322	1	AVP name modification in TS 32.299	10.8.0	10.9.0
2013-06	CT#60	CP-130279	0352	1	Definition of SS Status for Call Barring	10.9.0	10.10.0
			0356	-	Diameter AVP codes for new TS 32.299 AVPs		
2013-12	CT#62	CP-130600	0374	-	Allocation of Diameter codes for 32.299	10.10.0	10.11.0
2014-06	CT#64	CP-140231	0388	-	Adding Codes for 29.214	10.11.0	10.12.0
		CP-140257	0395	-	SS-Status AVP Definition		
2014-12	CT#66	CP-140756	0414	-	code definitions for 32.299	10.12.0	10.13.0
2015-03	CT#67	CP-150015	0445	-	Renaming of Location-Type AVP	10.13.0	10.14.0

### History

	Document history					
V10.2.0	April 2011	Publication				
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V10.7.0	July 2012	Publication				
V10.8.0	October 2012	Publication				
V10.9.0	January 2013	Publication				
V10.10.0	July 2013	Publication				
V10.11.0	December 2013	Publication				
V10.12.0	July 2014	Publication				
V10.13.0	January 2015	Publication				
V10.14.0	April 2015	Publication				