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Technical Specification

Digital cellular telecommunications system (Phase 2+);
Universal Mobile Telecommunications System (UMTS);
Diameter applications;
3GPP specific codes and identifiers
(3GPP TS 29.230 version 7.11.0 Release 7)



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Foreword

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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
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1 Scope

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

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

2 References

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

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

Diameter protocol".

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

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

- [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".

3 Definitions and abbreviations

3.1 Definitions

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

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

3.2 Abbreviations

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

AVP Attribute-Value-Pair CR Change Request

IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

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

5 Command codes

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

5.1 Command codes allocated for 3GPP

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

Table 5.1/1: Command codes allocated for 3GPP

Command code	Command name	Abbreviation	Specified in 3GPP TS
300	User-Authorization-Request/-Answer	UAR/UAA	
301	Server-Assignment-Request/-Answer	SAR/SAA	
302	Location-Info-Request/-Answer	LIR/LIA	
303	Multimedia-Auth-Request/-Answer	MAR/MAA	29.229 [2]
304	Registration-Termination-Request/-	RTR/RTA	
	Answer		
305	Push-Profile-Request/-Answer	PPR/PPA	
306	User-Data-Request/-Answer	UDR/UDA	
307	Profile-Update-Request/-Answer	PUR/PUA	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]

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

Table 5.1/2: Command codes allocated for 3GPP

312		
313		

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	Attribute Name	Data Type	Specified in the
Code			3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	29.234 [6]
Note: The	AVP codes from 1 to 255 are reserved for backward	Is compatibility with 3	GPP RADIUS Vendor
	tributes (See TS 29.061 [13])		
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	
311	Session-Request-Type	Enumerated	
312	Routing-Policy	IPFilterRule	
313	Max-Requested-Bandwidth	OctetString	
314	Charging-Characteristics	Integer	
315	Charging-Nodes	Grouped	
316	Primary-OCS-Charging-Function-Name	DiameterIdentity	
317	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
318	3GPP-AAA-Server-Name	DiameterIdentity	
319	Maximum-Number-Accesses	Unsigned32	
Note: The	AVP codes from 320 to 399 are reserved for TS 29.	234	
400	GBA-UserSecSettings	OctedString	
401	Transaction-Identifier	OctetString	
402	NAF-Hostname	OctetString	
403 404	GAA-Service-Identifier	OctedString Time	
404	Key-ExpiryTime ME-Key-Material	OctedString	29.109 [7]
406	UICC-Key-Material	OctedString	23.103 [7]
407	GBA_U-Awareness-Indicator	Enumerated	
408	BootstrapInfoCreationTime	Time	
409	GUSS-Timestamp	Time	
410	GBA-Type	Enumerated	
	AVP codes from 410 to 499 are reserved for TS 29.		
500	Abort-Cause	Enumerated	29.209 [8],
501	Access-Network-Charging-Address	Address	29.211 [17]
502	Access-Network-Charging-Identifier	Grouped	
503	Access-Network-Charging-Identifier-Value	OctetString	
504	AF-Application-Identifier	OctetString	
505	AF-Charging-Identifier	OctetString	
506	Authorization-Token	OctetString	
507	Flow-Description	IPFilterRule	
508	Flow-Grouping	Grouped	
509	Flow-Number	Unsigned32	
510	Flows	Grouped	
511	Flow-Status	Enumerated	
512	Flow-Usage	Enumerated	
513	Specific-Action	Enumerated	
514	Max-Requested-Bandwidth	Unsigned32	
515	Max-Requested-Bandwidth-DL	Unsigned32	
516	Max-Requested-Bandwidth-UL	Unsigned32	
517	Media-Component-Description	Grouped	
518	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	
Note: The AVP codes from 524 to 599 are reserved for TS		11
600 Visited-Network-Identifier	OctetString	
601 Public-Identity	UTF8String	
602 Server-Name	UTF8String	
603 Server-Capabilities	Grouped	
604 Mandatory-Capability	Unsigned32	
605 Optional-Capability	Unsigned32	
606 User-Data	OctetString	29.229 [2]
607 SIP-Number-Auth-Items	Unsigned32	
608 SIP-Authentication-Scheme	UTF8String	
609 SIP-Authenticate	OctetString	
610 SIP-Authorization	OctetString	
611 SIP-Authentication-Context	OctetString	
612 SIP-Auth-Data-Item	Grouped	29.229 [2], 29.234 [6]
613 SIP-Item-Number	Unsigned32	
614 Server-Assignment-Type	Enumerated	1
615 Deregistration-Reason	Grouped	
616 Reason-Code	Enumerated	
617 Reason-Info	UTF8String	
618 Charging-Information	Grouped	
619 Primary-Event-Charging-Function-Name	DiameterURI	
620 Secondary-Event-Charging-Function-Name	DiameterURI	
621 Primary-Charging-Collection-Function-Name	DiameterURI	
622 Secondary-Charging-Collection-Function-Name	DiameterURI	
623 User-Authorization-Type	Enumerated	20 220 [2]
624 User-Data-Already-Available	Enumerated	29.229 [2]
625 Confidentiality-Key	OctetString	
626 Integrity-Key	OctetString	
627 User-Data-Request-Type	Enumerated	
628 Supported-Features	Grouped	
629 Feature-List-ID	Unsigned32	
630 Feature-List	Unsigned32	
631 Supported-Applications	Grouped	
632 Associated-Identities	Grouped	
633 Originating-Request	Enumerated	
634 Wildcarded-PSI	UTF8String	
Note: The AVP codes from 634 to 699 are reserved for TS	3 29.229.	
700 User-Identity	Grouped	
701 MSISDN	OctetString	
702 User-Data	OctetString	
703 Data-Reference	Enumerated	
704 Service-Indication	OctetString	
705 Subs-Req-Type	Enumerated	29.329 [4]
706 Requested-Domain	Enumerated	20.020 [7]
707 Current-Location	Enumerated	
708 Identity-Set	Enumerated	
709 Expiry-Time	Time	
710 Send-Data-Indication	Enumerated	
711 DSAI-Tag	OctetString	
Note: The AVP codes from 711 to799 are reserved for TS		
Note: The AVP codes from 800 to 822 are reserved for TS		0
823 Event-Type	Grouped	32.299 [5]
824 SIP-Method	UTF8String	
825 Event	UTF8String	
826 Content-Type	UTF8String	
827 Content-Length	Unsigned32	
828 Content-Disposition	UTF8String	
829 Role-of-Node	- Loumorotod	ī
	Enumerated	
830 User-Session-Id 831 Calling-Party-Address	UTF8String UTF8String	

832	Called-Party-Address	UTF8String
833	Time-Stamps	Grouped
834	SIP-Request-Timestamp	Time
835	SIP-Response-Timestamp	Time
836	Application-Server	UTF8String
837	Application-provided-called-party-address	UTF8String
838	Inter-Operator-Identifier	Grouped
839 840	Originating-IOI Terminating-IOI	UTF8String UTF8String
841	IMS-Charging-Identifier	UTF8String
842	SDP-Session-Description	UTF8String
843	SDP-Media-Component	Grouped
844	SDP-Media-Name	UTF8String
845	SDP-Media-Description	UTF8String
846	CG-Address	Address
847	GGSN-Address	Address
848	Served-Party-IP-Address	Address
849	Authorized-QoS	UTF8String
850	Application-Server-Information	Grouped
851	Trunk-Group-Id	Grouped
852	Incoming-Trunk-Group-Id	UTF8String
853	Outgoing-Trunk-Group-Id	UTF8String
854	Bearer-Service	OctetString
855	Service-Id	UTF8String
856	Associated-URI	UTF8String
857	Charged-Party	UTF8String
858	PoC-Controlling-Address	UTF8String
859	PoC-Group-Name	UTF8String
860	Cause	Grouped
861	Cause-Code	Integer32
862	Node-Functionality	Enumerated
863	Service-Specific-Data	UTF8String
864	Originator DS Eurajah Charging Information	Enumerated
865 866	PS-Furnish-Charging-Information PS-Free-Format-Data	Grouped OctetString
867	PS-Append-Free-Format-Data	Enumerated
868	Time-Quota-Threshold	Unsigned32
869	Volume-Quota-Threshold	Unsigned32
870	Trigger-Type	Enumerated
871	Quota-Holding-Time	Unsigned32
872	Reporting-Reason	Enumerated
873	Service-Information	Grouped
874	PS-Information	Grouped
875	WLAN-Information	Grouped
876	IMS-Information	Grouped
877	MMS-Information	Grouped
878	LCS-Information	Grouped
879	PoC-Information	Grouped
880	MBMS-Information	Grouped
881	Quota-Consumption-Time	Unsigned32
882	Media-Initiator-Flag	Enumerated
883	PoC-Server-Role	Enumerated
884	PoC-Session-Type	Enumerated
885	Number-Of-Participants	Unsigned32
886	Originator-Address	Grouped
887	Participants-Involved	UTF8String
888	Expires	Unsigned32
889	Message-Body	Grouped
890	WAG-Address	Address
891	WAG-PLMN-Id	OctetString
892	WLAN-Radio-Container	Grouped
893	WLAN-Technology	Unsigned32
894	WLAN-UE-Local-IPAddress PDG-Address	Address Address
895 896	PDG-Address PDG-Charging-Id	Unsigned32
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901 TMG				
901 Required-MBMS-Bearer-Capabilities				
902 MBMS-StartStop-Indication Enumerated 903 MBMS-Session-Duration Unsigned32 904 MBMS-Session-Duration Unsigned32 905 Alternative-APN UTF8String 906 MBMS-Session-Indicator Enumerated 907 MBMS-Session-Identity OctotString 908 MBMS-Session-Identity OctotString 909 RAI UTF8String 910 Additional-MBMS-Trace-Info OctotString 911 MBMS-Session-Identity-Repetition-Number Unsigned32 912 MBMS-Session-Identity-Repetition-Number Unsigned32 913 MBMS-Session-Identity-Repetition-Number Unsigned32 914 MBMS-Costan-Identify-Repetition-Number Unsigned32 915 MBMS-GSAS-HA-Address UTF8String 916 MBMS-GSAS-HA-Address UTF8String 917 MBMS-GSAS-HA-Address UTF8String 918 MBMS-Session-StM-Pv6-Address UTF8String 918 MBMS-Session-StM-Pv6-Address UTF8String Note: The AVP codes from 9	900		OctectString	
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912 MBMS-Session-Identity-Repetition-Number Unsigned32 913 MBMS-Required-QoS UTF8String 914 MBMS-Counting-Information Enumerated 915 MBMS-User-Data-Mode-Indication Enumerated 916 MBMS-GSN-Address UTF8String 917 MBMS-GGSN-Pv6-Address UTF8String 918 MBMS-BMSC-SSM-IP-Address UTF8String 919 MBMS-BMSC-SSM-IP-V6-Address UTF8String Note: The AVP codes from 915 to 999 are reserved for TS 29.061 Enumerated 1001 Charging-Rule-Install Grouped 1002 Charging-Rule-Remove Grouped 1003 Charging-Rule-Remove Grouped 1004 Charging-Rule-Remove Grouped 1005 Charging-Rule-Remow UTF8String 1006 Event-Trigger Enumerated 1007 Metering-Method Enumerated 1008 Offline Enumerated 1010 Precedence Unsigned32 1011 Reporting-Level Enumerated				
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915 MBMS-User-Data-Mode-Indication				
916 MBMS-GGSN-Address			Enumerated	
917 MBMS-GGSN-IPv6-Address	915	MBMS-User-Data-Mode-Indication	Enumerated	
917 MBMS-GGSN-IPv6-Address	916		UTF8String	
918 MBMS-BMSC-SSM-IP-Address UTF8String 919 MBMS-BMSC-SSM-IP-6-Address UTF8String 1000 Note: The AVP codes from 915 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-Berinition Grouped 1004 Charging-Rule-Base-Name UTF8String 1005 Charging-Rule-Base-Name UTF8String 1006 Event-Trigger Enumerated 1007 Metering-Method Enumerated 1009 Online Enumerated 1010 Precedence Unsigned32 1011 Reporting-Level Enumerated 1012 TET-Filter IPFilterRule 1013 TET-Packet-Filter-Information Grouped 1014 ToS-Traffic-Class OctetString 1016 QoS-Information Grouped 1017 Grouped 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-DL Unsigned32 1027 IP-CAN-Type Enumerated 1028 QoS-Class-Identifier Grouped Enumerated 1029 Served-User-Identity Groupe 1010 Served-User-Identity Groupe 1011 VASP-ID UTF8Str 1100 Served-User-Identity Enumer 1101 VASP-ID UTF8Str 1102 Recipient-Address Groupe 1103 Recipient-Address Groupe 1104 Recipient-Address Groupe 1107 Sequence-Number Unsigne 1108 Recipient-Address UTF8Str 1109 Routeing-Address UTF8Str 1100 Delivery-Report Enumer 1111 Delivery-Report Enumer	917	MBMS-GGSN-IPv6-Address		
MBMS-BMSC-SSM-IPv6-Address				
Note: The AVP codes from 915 to 999 are reserved for TS 29.061				
1000 Bearer-Usage				
1001 Charging-Rule-Install Grouped				
1002 Charging-Rule-Remove Grouped				
1003 Charging-Rule-Definition Grouped				
1004 Charging-Rule-Base-Name				
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-DL Unsigned32 1027 IP-CAN-Type Enumerated 1028 QoS-Class-Identifier Enumerated Note: The AVP codes from 1015 to 1099 are reserved for TS 29.212 1100 Served-User-Identity Groupe 29.140 [16] 1101 VASP-ID UTF8Str 1102 VAS-ID UTF8Str 1103 Trigger-Event Enumer 1104 Sender-Address Groupe 1105 Initial-Recipient-Address Groupe 1106 Result-Recipient-Address Groupe 1107 Sequence-Number Unsigne 1108 Recipient-Address UTF8Str 1109 Routeing-Address UTF8Str 1100 Originating-Interface Enumer 1111 Delivery-Report Enumer 1111 Delivery-Report Enumer 1111 Delivery-Report Enumer 1111 Delivery-Report Enumer				
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1009	1008	Offline	Enumerated	
1010 Precedence			Enumerated	
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1111 Delivery-Report Enumer				
1112 Read-Reply Enumer			-	
	1112	кеаd-керіу	Enumer	

4440	Condon Visibility		
1113	Sender-Visibility	Enumer	
1114	Service-Key	UTF8Str	
1115	Billing-Information	UTF8Str	
1116	Status	Group	
1117	Status-Code	UTF8Str	
1118	Status-Text	UTF8Str	
Note:	The AVP codes from 1119 to 1199 are reserved for T		
1200	Domain-Name	UTF8String	32.299 [5]
1201	Recipient-Address	Grouped	
1202	Submission-Time	Time	
1203	MM-Content-Type	Grouped	
1204	Type-Number	Enumerated	
1205	Additional-Type-Information	UTF8String	
1206	Content-Size	Unsigned32	
1207	Additional-Content-Information	Grouped	
1208	Addressee-Type	Enumerated	
1209	Priority	Enumerated	
1210	Message-ID	UTF8String	
1211	Message-Type	Enumerated	
1212	Message-Size	Unsigned32	
1213	Message-Class	Grouped	
1213	Class-Identifier	Enumerated	
1214	Token-Text	UTF8String	
1216	Delivery-Report-Requested	Enumerated	
1217	Adaptations	Enumerated	
1218	Applic-ID	UTF8String	
1219	Aux-Applic-Info	UTF8String	
1219	Content-Class	Enumerated	
1221	DRM-Content	Enumerated	
1221			
	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-Client-Name	UTF8String	
1232	LCS-Client-Id	Grouped	
1233	LCS-Client-Dialed-By-MS	UTF8String	
1234	LCS-Client-External-ID	UTF8String	
1235	LCS-Client-Name	Grouped	
1236	LCS-Data-Coding-Scheme	UTF8String	
1237	LCS-Format-Indicator	Enumerated	
1238	LCS-Name-String	UTF8String	
1239	LCS-Requestor-Id	Grouped	
1240	LCS-Requestor-Id-String	UTF8String	
1241	LCS-Client-Type	UTF8String	
1242	Location-Estimate	UTF8String	
1243	Location-Estimate-Type	UTF8String	
1244	Location-Type	Grouped	
1245	Positioning-Data	UTF8String	
1246	WLAN-Session-Id	UTF8String	
1247	PDP-Context-Type	Enumerated	
1248	MMBox-Storage-Requested	Enumerated	
1249	Service-Specific-Info	Grouped	
1250	Called-Asserted-Identity	UTF8String	
1251	Requested-Party-Address	UTF8String	
1252	PoC-User-Role	Grouped	
1253	PoC-User-Role-IDs	UTF8String	
1254	PoC-User-Role-info-Units	Enumerated	
1255	Talk-Burst-Exchange	Grouped	
1256	Service-Generic-Information	Grouped	
1257	Service-Specific-Type	Unsigned32	

1258	Event-Charging-TimeStamp	Time	
1259	Participant-Access-Priority	Enumerated	
1260	Participant-Group	Grouped	
1261	PoC-Change-Conditions	Enumerated	
1262	PoC-Change-Time	Time	
1263	Access-Network-Information	OctetString	
1264	Trigger	Grouped	
1265	Base-Time-Interval	Unsigned32	
1266	Envelope	Grouped	
1267	Envelope-End-Time	Time	
1268	Envelope-Reporting	Enumerated	
1269	Envelope-Start-Time	Time	
1270	Time-Quota-Mechanism	Grouped	
1271	Time-Quota-Type	Enumerated	
1272	Early-Media-Description	Grouped	
1273	SDP-TimeStamps	Grouped	
1274	SDP-Offer-Timestamp	Time	
1275	SDP-Answer-Timestamp	Time	
1276	AF-Correlation-Information	Grouped	
1277	PoC-Session-Initiation-type	Enumerated	
1278	Offline-Charging	Grouped	
1279	User-Participating-Type	Enumerated	
1280	Alternate-Charged-Party-Address	UTF8String	
1281	IMS-Communication-Service-Identifier	UTF8String	
1282	Number-Of-Received-Talk-Bursts	Unsigned32	
1283	Number-Of-Talk-Bursts	Unsigned32	
1284	Received-Talk-Burst-Time	Unsigned32	
1285	Received-Talk-Burst-Volume	Unsigned32	
1286	Talk-Burst-Time	Unsigned32	
1287	Talk-Burst-Volume	Unsigned32	
1288	Media-Initiator-Party	UTF8String	
Note:	The AVP codes from 1289 to 1399 are reserved for TS	S 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 Expe	rimental Result Codes from 2006 to 2020 are reserved for the	TS 29.229.
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]
Note: The Expe	rimental Result Codes from 2022 to 2040 are reserved for the	TS 29.061
		29.109 [7]
Note: The Expe	rimental Result Codes from 2401 to 2420 are reserved for the	TS 29.109.

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental	Result text	Specified in the TS				
Result Code						
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]				
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS	29.329 [4]				
Note: The Exper	Note: The Experimental Result Codes from 4102 to 4120 are reserved for the TS 29.329.					
		29.061 [13]				
Note: The Exper	Note: The Experimental Result Codes from 4121 to 4140 are reserved for the TS 29.061.					
4141	DIAMETER_PCC_BEARER_EVENT	29.212 [19]				
Note: The Exper	rimental Result Codes from 4142 to 4160 are reserved for the	ΓS 29.212				
		32.299 [5]				
Note: The Exper	Note: The Experimental Result Codes from 41xx to 41yy are reserved for the TS 32.299.					

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				
Note: The Expe	rimental Result Codes from 5012 to 5020 are reserved for the T	S 29.229.			
		32.299 [5]			
Note: The Expe	rimental Result Codes from 5021 to 5040 are reserved for the T	S 32.299.			
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION				
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER				
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC RIPTION	29.234 [6]			
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION				
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK				
	te: The Experimental Result Codes from 5046 to 5060 are reserved for the TS 29.234.				
5061	INVALID_SERVICE_INFORMATION	29.209 [8],			
5062	FILTER_RESTRICTIONS	29.211 [17]			
Note: The Expe	rimental Result Codes from 5063 to 5080 are reserved for TS 29				
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_MODIFIE				
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	29.329 [4]			
5105	DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC				
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT				
5107	DIAMETER ERROR NO SUBSCRIPTION TO DATA				
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE				
	rimental Result Codes from 5109 to 5119 are reserved for the T	S 29.329.			
5120	DIAMETER ERROR START INDICATION				
5121	DIAMETER_ERROR_STOP_INDICATION				
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]			
5123	DIAMETER_ERROR_SERVICE_AREA				
	Note: The Experimental Result Codes from 5124 to 5139 are reserved for the TS 29.061.				
5140	DIAMETER_ERROR_INITIAL_PARAMETERS				
5141	DIAMETER_ERROR_TRIGGER_EVENT				
5142	DIAMETER_PCC_RULE_EVENT	00.040.5403			
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	29.212 [19]			
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE				
Note: The Even	סון rimental Result Codes from 5145 to 5159 are reserved for the T	L S 20 212			
плоте: тпе ехре	nimental result codes from 5145 to 5158 are reserved for the 15				
Note: The Fyre	rimental Paguit Codes from 5400 to 5440 are recomined for the Ti	29.109 [7]			
тиоте. тпе ⊏хре	rimental Result Codes from 5400 to 5419 are reserved for the T	S 29.109.			

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

2004-09 CN#24 NP-040292 Version 2.0.0 prosented for information and approval 2.0.0 6.0 2004-09 CN#25 NP-040401 001 Correction of Charging application reference 6.0.0 6.1 2004-09 CN#25 NP-040401 002 Correction of the Application-Id code 6.0.0 6.1 2004-09 CN#25 NP-040401 003 Removal of User Data Request Type AVP 6.0.0 6.1 2004-19 CN#26 NP-040579 006 Inclusion of Wiser Data Request Type AVP 6.0.0 6.1 2004-12 CN#26 NP-040579 006 Inclusion of missing Cx AVPs 6.1.0 6.2 2004-12 CN#26 NP-04059 007 Reservation of command code 310 6.1.0 6.2 2004-12 CN#26 NP-040579 009 Addition of Gmb interface 6.1.0 6.2 2004-12 CN#26 NP-040579 001 Addition of Gmb interface 6.1.0 6.2 2004-12 CN#26 NP-040579 011 Gq interface allocations 6.1.0 6.2 2004-12 CN#26 NP-040579 012 Addition of Gx interface 6.1.0 6.2 2004-12 CN#27 NP-040579 012 Addition of Gx interface 6.1.0 6.2 2004-12 CN#27 NP-050039 043 Allocations for Grib interface 6.1.0 6.2 2005-09 CN#27 NP-050039 045 Allocations for Grib interface 6.1.0 6.2 2005-09 CT#28 CP-050390 046 Allocations for Grib interface 6.1.0 6.2 2005-09 CT#29 CP-050317 0054 Addition of Missimum-Number-Accesses AVP 6.4.0 2005-09 CT#29 CP-050317 0055 Addition of Missimum-Number-Accesses AVP CP-050310 0056 Error code cleanup CP-050310 0056 CP-050310 0056	1004-06 New						Change history		
2004-09 CN#25 NP-040401 001 Correction of Charging application reference 6.0.0 6.1 2004-09 CN#25 NP-040401 002 Correction of the Application-1d code 6.0.0 6.1 2004-09 CN#25 NP-040410 003 Removal of User Data Request Type AVP 6.0.0 6.1 2004-12 CN#26 NP-040579 006 Removal of User Data Request Type AVP 6.0.0 6.1 2004-12 CN#26 NP-040579 006 Inclusion of missing Cx AVPs 6.10 6.2 2004-12 CN#26 NP-040579 009 Addition of Combinating Cx AVPs 6.10 6.2 2004-12 CN#26 NP-040579 009 Addition of Combinating Cx AVPs 6.10 6.2 2004-12 CN#26 NP-040579 009 Addition of Combinating Cx AVPs 6.10 6.2 2004-12 CN#26 NP-040579 011 Addition of Combinating Cx AVPs 6.10 6.2 2004-12 CN#26 NP-040579 011 Gy interface allocations 6.10 6.2 2004-12 CN#26 NP-040579 012 Addition of Cx Interface 6.10 6.2 2004-12 CN#26 NP-040579 012 Addition of Cx Interface 6.10 6.2 2004-12 CN#26 NP-040579 012 Addition of Cx Interface 6.10 6.2 2005-03 CN#27 NP-050047 040 1 WLAN Diameter AVP and result codes 6.10 6.2 2005-04 CN#26 NP-050039 043 Allocations for Gx interface 7.00 6.10 2005-05 CT#28 CP-050088 0050 CX Interface 7.00 7.00 2005-09 CT#29 CP-050310 0054 Error code cleanup 2.005009 0051 Addition of GRA-Type AVP 7.00 7.00 7.1 2005-09 CT#29 CP-050317 0055 Addition of GRA-Type AVP 7.00 7.00 7.1 2005-09 CT#29 CP-050317 0055 Addition of GRA-Type AVP 7.00 7.	0.04-09 CN#25				CR	Rev			New
2004-09 CN#25 NP-040401 002 Correction of the Application-Id code 6.0.0 6.1. 2004-09 CN#25 NP-040401 003 Removal of User Data Request Type AVP 6.0.0 6.1. 2004-12 CN#26 NP-04078 004 Renumbering of 3GPP specific AVP codes 6.0.0 6.1. 2004-12 CN#26 NP-04058 007 Reservation of command code 310 6.1.0 6.2. 2004-12 CN#26 NP-04059 008 1 Addition of Gmb interface 6.1.0 6.2. 2004-12 CN#26 NP-04059 009 1 Addition of Gmb interface 6.1.0 6.2. 2004-12 CN#26 NP-04059 009 1 Addition of Gmb interface 6.1.0 6.2. 2004-12 CN#26 NP-040579 011 Gg interface allocations 6.1.0 6.2. 2004-12 CN#26 NP-040579 011 Gg interface allocations 6.1.0 6.2. 2004-12 CN#26 NP-040579 011 Gg interface allocations 6.1.0 6.2. 2004-12 CN#26 NP-040579 012 Addition of Gx interface 6.1.0 6.2. 2005-03 CN#27 NP-05007 704 1 WLAN Diameter AVP and result codes 6.2.0 6.3. 2005-04 CN#26 NP-050039 046 Allocations for Grb interface 6.1.0 6.2. 2005-05 CT#28 CP-050039 046 Allocations for Grb interface 70.0 70.0 70.0 2005-06 CT#28 CP-050310 0054 Error code cleanup CP-050400 0052 CP-050310 0054 Error code cleanup CP-050400 0052 CP-050310 0056 Addition of GWS timestamp AVP 70.0 71. 2005-07 CT#29 CP-05031 0055 Addition of GWS timestamp AVP 70.0 71. 2005-08 CT#29 CP-05031 0055 Addition of GWS timestamp AVP 70.0 71. 2005-09 CT#29 CP-05031 0055 Addition of GWS timestamp AVP 70.0 71. 2006-00 CT#29 CP-05031 0055 Addition of GWS timestamp AVP 70.0 71. 2006-01 CT#30 CP-050612 0066 Reservation of AVP Allocation 70.0 71. 2006-02 CT#31 CP-050031 0055 Addition of GWS timestamp AVP 70.0 71. 2006-03 CT#31 CP-050031 0055 Addition of GWS timestamp AVP 70.0 71. 2006-04 CT#33 CP-050031 0055 Addition of GWS timestamp AVP 70.0 70.0 70.0 70.0	0.04-09 CN#25 NP-040401 002							2.0.0	6.0.0
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2004-12 CN#26 NP-04012 Dol4 Ne-numbering of 3GPP specific AVP codes. 6.0.0 6.1.2	1044-12 CM#25 NP-040472 004							6.0.0	6.1.0
2004-12 CN#26 NP-040579 006 Inclusion of missing Cx AVPs 6.1.0 6.2 2004-12 CN#26 NP-040580 007 1 Addition of Command code 310 6.1.0 6.2 2004-12 CN#26 NP-040579 009 1 Addition of Gmb interface 6.1.0 6.2 2004-12 CN#26 NP-040579 009 1 Addition of Gmb interface 6.1.0 6.2 2004-12 CN#26 NP-040579 011 Gq interface allocations 6.1.0 6.2 2004-12 CN#26 NP-040579 012 Addition of Gx interface 6.1.0 6.2 2004-12 CN#27 NP-050047 040 1 WLAN Diameter AVP and result codes 6.1.0 6.2 2005-03 CN#27 NP-050047 040 1 WLAN Diameter AVP and result codes NP-050039 045 Allocations for Gx interface NP-050039 045 Allocations for Gx interface NP-050039 045 Allocations for Gx interface NP-050039 046 Allocations for Gx interface NP-050039 046 Allocations for MBM, MM10 Interface NP-050039 046 Allocations for MBM, MM10 Interface NP-050039 046 Allocations for MBM, MM10 Interface NP-050039 046 Addition of Maximum-Number-Accesses AVP CP-050310 0053 Addition of Rawinum-Number-Accesses AVP CP-050310 0056 Addition of Rawinum-Number Accesses AVP CP-05031	104-12 CN#26 NP-040579 006 Inclusion of missing Cx AVPS 6.10 6.2.1								6.1.0
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2004-12 CN#26 NP-040579 009 1 Addition of Gmb interface 6.1.0 6.2.	104-12 CN#26 NP-040679 009 1 Addition of Gmb interface 6.1.0 6.2.1							6.1.0	6.2.0
2004-12 CN#26 NP-040600 010 2 Documenting the Reuse of the 3GPP specific application identifier 6.1.0 6.2 6.20 6.10	December December	2004-12	CN#26			1	Reservation of command code 310	6.1.0	6.2.0
Of Ro for Re on the Charging Interfaces	Of Ro for Re on the Charging Interfaces	2004-12	CN#26	NP-040579	009	1		6.1.0	6.2.0
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NP-050039 043	NP-050039 043	2004-12	CN#26	NP-040579	012		Addition of Gx interface	6.1.0	6.2.0
NP-050039 043	NP-050039 043	2005-03	CN#27	NP-050047	040	1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
NP-050039 045	NP-050039 045			NP-050039	043			Ī	
NP-050038 046	NP-050038 046							1	
CT#28	CP-050088 OS0 OS1 CR interface allocation correction CP-050088 OS5 CP-050440 OS2 1 Addition of Maximum-Number-Accesses AVP CP-050440 OS2 1 Private identities on the CX CP-050310 OS3 CP-050310 OS4 Error code cleanup CP-050310 OS5 Addition of Px ref. point and renaming of Experimental Result Codes CP-050310 OS5 Addition of GUSS timestamp AVP CP-050612 OS5 Addition of GUSS timestamp AVP T.0.0 T.1.0 T.1.0 CP-050612 OS5 Addition of GUSS timestamp AVP T.0.0 T.1.0 T.1.0 CP-050612 OS5 Addition of GUSS timestamp AVP T.0.0 T.1.0 T.1.0 CP-050612 OS5 Addition of GUSS timestamp AVP T.0.0 T.1.0 T.1.0 CP-050612 OS5 Addition of GUSS timestamp AVP T.0.0 T.1.0 T.1.0 T.1.0 CP-050612 OS5 Addition of GUSS timestamp AVP T.0.0 T.1.0 T.1.0 T.1.0 CP-050612 OS5 Addition of GUSS timestamp AVP T.0.0 T.1.0 T.1.0		Ì					i	
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C7#29	CF-050440 OS2 1					1			
CP-050310 0053	CP-050310 0053	2005-09	CT#29			1		6.4.0	6.5.0
CP-050310 0054 Error code cleanup Addition of Rx ref. point and renaming of Experimental Result Codes	CP-050310 0054	2000 00	01,120			•		0. 1.0	0.0.0
CP-050310 O056	CP-050310 0056		Ì					1	
CT#29	CT#29		ļ				Addition of Rx ref. point and renaming of Experimental Result		
CP-050612 ODS Addition of GBA-Type AVP T.0.0 CP-050612 O065 Additional Gmb AVP Allocation CP-050612 O065 CP-050612 O065 CP-050612 O066 CP-050612 O069 Adding data type of some of WLAN-related AVPs T.1.0 T.2.0 T.2.0	CF-050612 O.058	2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
CP-050612 0063	CP-050612 0063								7.1.0
CP-050612 0065 Reservation of AVP codes for 32.299	CP-050612 0065 Reservation of AVP codes for 32.299 CP-050625 0066 Management of Sh subscriptions 7.1.0 7.2.0 CP-060073 0069 Adding data type of some of WLAN-related AVPS 7.1.0 7.2.0 CP-060084 0071 User-Data in the response to Sh-Subs-Notif CP-060084 0072 1 New error indications for the Sh-Subs-Notif procedure 7.2.0 7.3.0 7.3.0 7.4.0 CP-060084 0075 S-CSCF reselection removal 7.2.0 7.3.0 7.3.0 7.3.0 CP-060417 0080 Errors to be sent in response to Sh-Notif CP-060417 0081 Definition of specific Diameter codes for DSAI CP-060417 0081 Definition of specific Diameter codes for DSAI CP-060555 0085 Addition of Diameter Error Code for Emergency Purposes CP-060555 0087 Allocation of new AVP codes for Gmb CP-060555 0089 AVP code allocations for Rf and Ro interfaces CP-070020 0093 Allocation of new AVP code values to 3GPP TS 29.230 7.5.0 7.6.0 CP-070020 0093 Allocation of new AVP code for DSAI-Tag AVP CP-070020 0093 Allocation of Experimental-Result-Code AVP for Gi Interface CP-070312 0098 Experimental-Result-Codes for Gmb interface CP-070312 0100 Correction of Diameter AVP code allocation CP-070312 0100 Correction of Diameter AVP code allocation CP-070312 0100 Correction of Diameter AVP code and Experimental Result Codes for Gx protocol CT#38 CP-070743 0104 AVP code reservation for 32.299 in Rel-7 7.8.0 7.9.0							1	
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CT#31	CP-060073 CP-060073 O069 Adding data type of some of WLAN-related AVPs CP-060084 O071 User-Data in the response to Sh-Subs-Notif CP-060084 O072 1 New error indications for the Sh-Subs-Notif procedure CP-060302 O075 S-CSCF reselection removal 7.2.0 7.3.0 7.4.0 O06-09 CT#33 CP-060417 O080 Errors to be sent in response to Sh-Notif CP-060417 O081 Definition of specific Diameter codes for DSAI CP-060566 O085 O086 Addition of Diameter Error Code for Emergency Purposes CP-060555 O087 Allocation of new AVP codes for Gmb CP-060566 O091 Allocation of success Result Code Range for Gi Interface CP-070020 O093 Allocation of new AVP code for DSAI-Tag AVP CP-070020 O093 Allocation of new AVP code for DSAI-Tag AVP CP-070020 O093 Allocation of new AVP code for DSAI-Tag AVP CP-070020 O093 Allocation of new AVP code for DSAI-Tag AVP O07-06 CT#36 CP-070312 O096 Diameter application ID for the Rel-7 Rx interface CP-070312 O098 Experimental-Result-Code AVP for Gi Interface CP-070312 O098 Experimental-Result-Codes for Gmb interface CP-070312 O109 Correction of Diameter AVP code allocation O107-09 CT#37 CP-070527 O102 Application ID for Gx protocol O107-09 CT#38 CP-070743 O104 AVP code reservation for 32.299 in Rel-7 O105 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol CP-080015 O108 Correction of Post protocol O108 Correction of Post protocol O108 Correction of O108 Correction of Post protocol O108 Correction of Post protocol O108 Correction of O108 O108 Correction of Post protocol O108 Correction of Post protocol O108 O109 O109 Correction of Post protocol O109 O109		Ì					i	
CP-060084 0071 User-Data in the response to Sh-Subs-Notif	CP-060084 0071 User-Data in the response to Sh-Subs-Notif	2006-03	CT#31					7.1.0	7.2.0
CP-060084 0072 1 New error indications for the Sh-Subs-Notif procedure 7.2.0 7.3.	CP-060084 0072 1 New error indications for the Sh-Subs-Notif procedure 7.2.0 7.3.0		00.					1	1
2006-06 CT#32 CP-060302 0075 S-CSCF reselection removal 7.2.0 7.3.	CP-06060 CT#32 CP-060302 0075 S-CSCF reselection removal 7.2.0 7.3.0 7.3.0 7.4.0 7					1		Ť	
CP-060417 0080 Errors to be sent in response to Sh-Notif CP-060417 0080 Errors to be sent in response to Sh-Notif CP-060417 0081 Definition of specific Diameter Codes for DSAI CP-060566 0085 1 Optimization of handling of Wildcarded PSIs CP-060562 0086 Addition of Diameter Error Code for Emergency Purposes CP-060555 0087 Allocation of new AVP codes for Gmb CP-060555 0089 AVP code allocations for Rf and Ro interfaces CP-060555 0089 AVP code allocations for Rf and Ro interfaces CP-070020 0093 Allocation of Success Result Code Range for Gi Interface CP-070020 0093 Allocation of new AVP code for DSAI-Tag AVP CP-070020 0093 Allocation of new AVP code for DSAI-Tag AVP CP-070021 0093 Allocation of Experimental-Result-Code AVP for Gi Interface CP-070312 0098 Experimental-Result-Codes for Gmb interface CP-070312 0098 Experimental-Result-Codes for Gmb interface CP-070312 0098 Experimental-Result-Codes for Gmb interface CP-070312 0100 Correction of Diameter AVP code allocation CP-070312 0100 Application ID for Gx protocol CT#38 CP-070743 0104 AVP code reservation for 32.299 in Rei-7 7.8.0 7.9.0	CT#33	2006-06	CT#32					720	7.3.0
CP-060417 0080 Errors to be sent in response to Sh-Notif	CP-060417 0080 Errors to be sent in response to Sh-Notif					3			7.4.0
CP-060417 0081 Definition of specific Diameter codes for DSAI	CP-060417 0081 Definition of specific Diameter codes for DSAI		000			_		1 .0.0	
CT#34	CT#34		Ì					┪	
CP-060562 0086 Addition of Diameter Error Code for Emergency Purposes CP-060555 0087 Allocation of new AVP codes for Gmb	CP-060562 0086 Addition of Diameter Error Code for Emergency Purposes	2006-12	CT#34			1		740	750
CP-060555 0087 Allocation of new AVP codes for Gmb CP-060555 0089 AVP code allocations for Rf and Ro interfaces CP-060566 0091 Allocation of Success Result Code Range for Gi Interface CP-070020 0093 C3 requested addition of new AVP code values to 3GPP TS 29.230 7.5.0 CP-070020 0093 Allocation of new AVP code for DSAI-Tag AVP CP-070020 0093 Allocation of Experimental-Result-Code AVP for Gi Interface CP-070318 0096 Diameter application ID for the Rel-7 Rx interface CP-070312 0098 Experimental-Result-Codes for Gmb interface CP-070312 0100 Correction of Diameter AVP code allocation CP-070312 0100 Application ID for Gx protocol CT#38 CP-070527 0102 Application ID for Gx protocol CT#38 CP-070743 0104 AVP code reservation for 32.299 in Rel-7 7.8.0 7.9.0 7.9.0 CT#39 CP-080015 0108 Correction of reference to TS 29.140 Correction of TS 32.299 in Rel-7 0110 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 0114 0144 0144 0144 0144 0144 0144 01	CP-060555 0087	2000 12	01//04					17.4.0	7.0.0
CP-060555 0089	CP-060555 0089		Ì					┪	
CP-060566 0091 Allocation of Success Result Code Range for Gi Interface	CP-060566 0091 Allocation of Success Result Code Range for Gi Interface							†	
CT#35	CP-070020 CP-0							†	
CP-070020 0093 Allocation of new AVP code for DSAI-Tag AVP	CP-070020 0093 Allocation of new AVP code for DSAI-Tag AVP	2007-03	CT#35					750	760
CP-070020 0093 Allocation of Experimental-Result-Code AVP for Gi Interface 7.6.0 7.7.0	CP-070020 0093 Allocation of Experimental-Result-Code AVP for Gi Interface	2007-03	01#33					7.5.0	7.0.0
CT#36	CP-070318 0.096 Diameter application ID for the Rel-7 Rx interface CP-070312 0.098 Experimental-Result-Codes for Gmb interface CP-070312 0.000 COrrection of Diameter AVP code allocation CO7-09 CT#37 CP-070527 0.102 Application ID for Gx protocol CT#38 CP-070743 0.104 AVP code reservation for 32.299 in Rel-7 CO48 for Gx protocol CO48 for Gx protocol							†	
CP-070312 0098 Experimental-Result-Codes for Gmb interface CP-070312 0100 Correction of Diameter AVP code allocation 7.7.0 7.8.0 2007-09 CT#37 CP-070527 0102 Application ID for Gx protocol 7.7.0 7.8.0 2007-12 CT#38 CP-070743 0104 AVP code reservation for 32.299 in Rel-7 7.8.0 7.9.0 7.9.0 2008-03 CT#39 CP-080015 0108 Correction of reference to TS 29.140 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 1.0 1	CP-070312 0098 Experimental-Result-Codes for Gmb interface CP-070312 0100 Correction of Diameter AVP code allocation 7.7.0 7.8.0 7.9	2007.06	CT#26					760	770
CP-070312 0100 Correction of Diameter AVP code allocation	CP-070312 0100 Correction of Diameter AVP code allocation 7.7.0 7.8.0	2007-00	01#30					7.0.0	1.7.0
2007-09 CT#37 CP-070527 0102 Application ID for Gx protocol 7.7.0 7.8.0 2007-12 CT#38 CP-070743 0104 AVP code reservation for 32.299 in Rel-7 7.8.0 7.9.0	CT#37		ł	CP 070312	0100			┪	
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O105 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol	O105								
Codes for Gx protocol 2008-03 CT#39 CP-080015 0108 Correction of reference to TS 29.140 7.9.0 7.10 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 1 1 Correction on AVP code allocation reservation for TS 32.299 1 1 1 Correction on AVP code allocation reservation for TS 32.299 1 1 1 1 1 1 1 1 1	Codes for Gx protocol C7#39 CP-080015 0108 Correction of reference to TS 29.140 7.9.0 7.10 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 7.10 7.1	2001-12	01#30	GF-0/0/43				1.0.0	7.9.0
2008-03 CT#39 CP-080015 0108 Correction of reference to TS 29.140 7.9.0 7.10 0110 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 0114 1 Correction on AVP code allocation reservation for TS 32.299 7.10	CT#39 CP-080015 0108 Correction of reference to TS 29.140 7.9.0 7.10				0105				
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	008-06 CT#40 CP-080267 0116 1 A new Diameter Permanent Failure Code for Gx 7.10.0 7.11							<u> </u>	<u> </u>

History

Document history				
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