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**Universal Mobile Telecommunications System (UMTS);
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Diameter-based T4 Interface for communications with packet
data networks and applications
(3GPP TS 29.337 version 12.6.0 Release 12)**



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Contents

Intellectual Property Rights	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	5
1 Scope	6
2 References	6
3 Definitions and Abbreviations.....	7
3.1 Abbreviations	7
4 General Description.....	7
5 MTC-IWF – SMS-SC (T4)	7
5.1 Introduction	7
5.2 Procedure Descriptions.....	7
5.2.1 Device Trigger Procedure.....	7
5.2.1.1 General	7
5.2.1.2 Detailed Behaviour of the MTC-IWF	9
5.2.1.3 Detailed Behaviour of the SMS-SC	9
5.2.2 Delivery Report of Device Trigger	10
5.2.2.1 General	10
5.2.2.2 Detailed Behaviour of the SMS-SC	11
5.2.2.3 Detailed Behaviour of the MTC-IWF	12
6 Protocol Specification and Implementation	12
6.1 General	12
6.1.1 Use of Diameter Base Protocol.....	12
6.1.2 Securing Diameter Messages	12
6.1.3 Accounting Functionality	12
6.1.4 Use of Sessions	12
6.1.5 Transport Protocol	12
6.1.6 Routing Considerations.....	12
6.1.7 Advertising Application Support	13
6.1.8 Diameter Application Identifier	13
6.1.9 Use of the Supported-Features AVP	13
6.2 Commands.....	14
6.2.1 Introduction.....	14
6.2.2 Command-Code Values	14
6.2.3 Device-Trigger-Request (DTR) Command	14
6.2.4 Device-Trigger-Answer (DTA) Command.....	15
6.2.5 Delivery-Report-Request (DRR) Command.....	15
6.2.6 Delivery-Report-Answer (DRA) Command	15
6.3 AVPs	16
6.3.1 SM-Delivery-Outcome-T4.....	17
6.3.2 Absent-Subscriber-Diagnostic-T4	18
6.3.3 Serving-Node.....	18
6.3.4 Additional-Serving-Node.....	19
6.3.5 Supported-Feature-List AVP for the T4 application.....	19
6.3.6 Trigger-Action	20
6.3.7 MTC-Error-Diagnostic	20
7 Result-Code and Experimental-Result Values	20
7.1 General	20
7.2 Success	21
7.3 Permanent Failures	21
7.3.1 DIAMETER_ERROR_USER_UNKNOWN (5001).....	21

7.3.2 DIAMETER_ERROR_INVALID_SME_ADDRESS (5530)21
7.3.3 DIAMETER_ERROR_SC_CONGESTION (5531).....21
7.3.4 Void 21
7.3.5 DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE (5533)21
7.3.6 DIAMETER_ERROR_TRIGGER_RECALL_FAILURE (5534).....21
7.3.7 DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING (5535).....21

Annex A (informative): Change history22
History23

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1 Scope

The present document describes the Diameter based interface between the Machine Type Communications-InterWorking Function (MTC-IWF) and the Short Message Service-Service Centre (SMS-SC) for communications with packet data networks and applications.

This specification defines the Diameter application for the T4 reference point between the MTC-IWF and the SMS-SC. The interactions between the MTC-IWF and the SMS-SC are specified.

The stage 2 description for communications with packet data networks and applications (architecture and functionality) is specified in the 3GPP TS 23.682 [2].

2 References

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- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 23.682: "Architecture enhancements to facilitate communications with packet data networks and applications".
- [3] IETF RFC 3588: "Diameter Base Protocol".
- [4] 3GPP TS 33.210: "3G Security; Network Domain Security; IP Network Layer Security".
- [5] IETF RFC 4960: "Stream Control Transmission Protocol".
- [6] 3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter protocol".
- [7] 3GPP TS 29.228: "IP multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and Message Elements".
- [8] 3GPP TS 23.003: "Numbering, addressing and identification".
- [9] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".
- [10] IETF RFC 5234: "Augmented BNF for Syntax Specifications: ABNF".
- [11] 3GPP TS 29.329: "Sh Interface based on the Diameter protocol".
- [12] 3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications".
- [13] 3GPP TS 29.338: "Diameter based protocols to support SMS capable MMEs".
- [14] 3GPP TS 29.173: "Diameter-based SLh interface for Control Plane LCS".
- [15] 3GPP TS 29.368: "Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS)".
- [16] 3GPP TS 29.272: "Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol".