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Universal Mobile Telecommunications System (UMTS);
LTE;
Diameter based protocols to support
Short Message Service (SMS)
capable Mobile Management Entities (MMEs)
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Foreword

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1 Scope

The present document defines the Diameter-based interfaces specific to SMS when they are used in conjunction with the "SMS in MME" architecture specified in 3GPP TS 23.272 [2] or for SGSN supporting EPS interfaces. It comprises:

- the Diameter application for the S6c interface between the HSS and the central SMS functions (SMS-GMSC, SMS Router) ;
- the Diameter application
  - for the SGd interface between the MME, the SMS-IWMSC, the SMS-GMSC and the SMS Router.
  - for the Gdd interface between the SGSN, the SMS-IWMSC, the SMS-GMSC and the SMS Router.

2 References

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[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.272: "Circuit Switched (CS) fallback in Evolved Packet System (EPS); Stage 2".

[3] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".

[4] 3GPP TS 29.272: "Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol".

[5] 3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter protocol; Protocol details".

[6] IETF RFC 2234: "Augmented BNF for Syntax Specifications: ABNF".

[7] Void.

[8] IETF RFC 5516: "Diameter Command Code Registration for the Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)".

[9] 3GPP TS 29.002: "Mobile Application Part (MAP) specification".

[10] 3GPP TS 29.173: "Location Services (LCS); Diameter-based SLh interface for Control Plane LCS".

[11] 3GPP TS 33.210: "3G security; Network Domain Security (NDS); IP network layer security ".

[12] IETF RFC 4960: "Stream Control Transport Protocol".

[13] ITU-T Recommendation E.164: "The international public telecommunication numbering plan".

[14] 3GPP TS 29.329: "Sh Interface based on the Diameter protocol; Protocol details".

[15] 3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications".

[16] 3GPP TS 23.003: "Numbering, addressing and identification".