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Foreword

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1 Scope

The present document provides the stage 3 specification of the Rx reference point for the present release. The functional requirements and the stage 2 specifications of the Rx reference point are contained in 3GPP TS 23.203 [2]. The Rx reference point lies between the Application Function and the Policy and Charging Rule Function. The Rx interface which is based on RESTful HTTP and XML is specified in 3GPP TS 29.201 [37].

Whenever it is possible the present document specifies the requirements for the protocol by reference to specifications produced by the IETF within the scope of Diameter. Where this is not possible, extensions to Diameter are defined within the present document.

2 References

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

[2] 3GPP TS 23.203: "Policy and Charging Control architecture".

[3] Void.

[4] Void.

[5] 3GPP TS 29.209: "Policy control over Gq interface", latest Rel-6 version.

[6] Void.

[7] 3GPP TS 29.211: "Rx Interface and Rx/Gx signalling flows", latest Rel-6 version.

[8] 3GPP TS 29.212: "Policy and Charging Control (PCC); Reference points".

[9] 3GPP TS 29.213: "Policy and Charging Control signalling flows and Quality of Service (QoS) parameter mapping".

[10] Void.

[11] IETF RFC 3556: "Session Description Protocol (SDP) Bandwidth Modifiers for RTP Control Protocol (RTCP) Bandwidth".

[12] IETF RFC 4005: "Diameter Network Access Server Application".

[13] IETF RFC 4566: "SDP: Session Description Protocol".

[14] IETF RFC 4006: "Diameter Credit Control Application".

[15] ETSI TS 183 017 v3.2.1: "Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN); Resource and Admission Control: DIAMETER protocol for session based policy set-up information exchange between the Application Function (AF) and the Service Policy Decision Function (SPDF); Protocol specification".

[16] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".

[17] 3GPP TS 24.229: "IP Multimedia Call Control Protocol based on SIP and SDP; Stage 3".