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Interworking aspects and migration scenarios for IPv4-based IP Multimedia Subsystem (IMS) implementations
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Introduction

3GPP specifications design the IMS to use exclusively IPv6, however early IMS implementations and deployments may use IPv4, as specified in clause 5.1 of TS 23.221 [3]. Therefore it is understood that there will exist IPv4 based IMS implementations, namely initial IMS implementations and IMS implementations based on 3GPP2 specifications. This is the motivation to study interworking and migration scenarios related to IPv4 based IMS implementations.

1 Scope

The present document studies study interworking and migration scenarios related to IPv4 based IMS implementations. The study provides guidelines for operators and vendors on interworking aspects of IPv4 based IMS implementations, and provides guidelines on migrating to 3GPP IMS using IPv6.

2 References

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[1] Void.

[2] 3GPP TS 21.905: "Vocabulary for 3GPP Specifications".

[3] 3GPP TS 23.221: "Architectural Requirements".

[4] 3GPP TS 23.228: "IP Multimedia (IM) Subsystem - Stage 2".

[5] 3GPP TS 23.141: "Presence Service; Architecture and Functional Description".

[6] 3GPP TS 23.060: "General Packet Radio Service (GPRS); Service description; Stage 2".

[7] 3GPP TS 33.203: "3G security; Access security for IP-based services".

[7a] 3GPP TS 23.002: "Network Architecture".

[8] draft-ietf-ngtrans-isatap-21.txt (April 2004): "Intra-Site Automatic Tunnel Addressing Protocol (ISATAP)", work in progress.

Editor's note: The above document cannot be formally referenced until it is published as an RFC.

[9] 3GPP TS 24.008: "Mobile radio interface Layer 3 specification; Core network protocols; Stage 3".

[10] RFC 2373: "IP Version 6 Addressing Architecture".

[11] OMA Device Management 1.1.2.

[12] OMA Client Provisioning 1.1.

[13] 3GPP TS 24.167: "3GPP IMS Management Objects (MO); Stage 3".

[14] 3GPP TS 27.060: "Mobile Station (MS) supporting Packet Switched Services".