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TECHNICAL SPECIFICATION

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Interworking between the IM CN subsystem and IP networks
(3GPP TS 29.162 version 13.2.0 Release 13)**



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Foreword

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1 Scope

The IM CN subsystem interworks with the external IP networks through the Mb reference point.

This document details the interworking between the IM CN subsystem and external IP networks for IM service support. It addresses the issues of control plane interworking and, user plane interworking for specific interworking use cases. Clause 10 describes the IMS-Ix interface requirements in the form of Use Cases which require H.248 protocol procedures. Subclause 10.4 then details the additional Information Elements required to perform the specific procedures.

The IP version Interworking, between IP version 4 (IETF RFC 791 [9]) and IP version 6 (IETF RFC 2460 [10]) detailed in terms of the processes and protocol mappings required in order to support both IMS originated and terminated calls.

2 References

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

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- 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 24.229: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".
- [2] IETF RFC 3261: "SIP: Session Initiation Protocol".
- [3] 3GPP TS 23.221: "Architectural requirements".
- [4] 3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".
- [5] 3GPP TS 23.002: "Network architecture".
- [6] Void.
- [7] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [8] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".
- [9] IETF RFC 791: "Internet Protocol".
- [10] IETF RFC 2460: "Internet Protocol, Version 6 (IPv6) Specification".
- [11] IETF RFC 2766: "Network Address Translation - Protocol Translation (NAT-PT)".
- [12] IETF RFC 2663: "IP Network Address Translator (NAT) Terminology and Considerations".
- [13] 3GPP TR 29.962 version 6.1.0: "Signalling interworking between the 3GPP profile of the Session Initiation Protocol (SIP) and non-3GPP SIP usage".
- [14] Void.
- [15] Void.
- [16] Void.