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Stage 2  
(3GPP TS 23.228 version 13.8.0 Release 13)**



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650 Route des Lucioles  
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C  
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## Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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- x the first digit:
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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
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# 1 Scope

This document defines the stage-2 service description for the IP Multimedia Core Network Subsystem (IMS), which includes the elements necessary to support IP Multimedia (IM) services. ITU-T Recommendation I.130 [4] describes a three-stage method for characterisation of telecommunication services, and ITU-T Recommendation Q.65 [3] defines stage 2 of the method.

This document does not cover the Access Network functionality except as they relate to provision of IM services, these aspects are covered in the normative Annex E for these accesses.

This document identifies the mechanisms to enable support for IP multimedia applications. In order to align IP multimedia applications wherever possible with non-3GPP IP applications, the general approach is to adopt non-3GPP specific IP based solutions.

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# 2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- 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 23.002: "Network Architecture".
- [2] CCITT Recommendation E.164: "Numbering plan for the ISDN era".
- [3] CCITT Recommendation Q.65: "Methodology – Stage 2 of the method for the characterisation of services supported by an ISDN".
- [4] ITU Recommendation I.130: "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [5] Void.
- [6] Void.
- [7] 3GPP TS 23.221: "Architectural Requirements".
- [8] 3GPP TS 22.228: "Service requirements for the IP multimedia core network subsystem".
- [9] 3GPP TS 23.207: "End-to-end QoS concept and architecture".
- [10] Void.
- [10a] 3GPP TS 24.229: "IP Multimedia Call Control based on SIP and SDP; Stage 3".
- [11] Void.
- [11a] 3GPP TS 29.207: "Policy control over Gs interface".
- [12] IETF RFC 3261: "SIP: Session Initiation Protocol".
- [13] IETF RFC 3986: "Uniform Resource Identifiers (URI): Generic Syntax".
- [14] IETF RFC 4282: "The Network Access Identifier".
- [15] IETF RFC 3966: "The tel URI for Telephone Numbers".