

ETSI TS 124 147 V13.1.0 (2016-04)



TECHNICAL SPECIFICATION

**Digital cellular telecommunications system (Phase 2+) (GSM);
Universal Mobile Telecommunications System (UMTS);
LTE;
Conferencing using the IP Multimedia (IM)
Core Network (CN) subsystem;
Stage 3
(3GPP TS 24.147 version 13.1.0 Release 13)**



Reference

RTS/TSGC-0124147vd10

Keywords

GSM,LTE,UMTS

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Foreword

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1 Scope

The present document provides the protocol details for conferencing within the IP Multimedia Core Network subsystem (IMS) based on the Session Initiation Protocol (SIP), SIP Events, the Session Description Protocol (SDP) and the Binary Floor Control Protocol (BFCP).

The functionalities for conference policy control (with respective standardised protocols) are felt to be essential for a complete IMS conferencing service but are not specified in this version of IMS conferencing and are for further study.

The present document does not cover the signalling between a MRFC and a MRFP.

Where possible, the present document specifies the requirements for this protocol by reference to specifications produced by the IETF within the scope of SIP, SIP Events, SDP and BFCP, either directly, or as modified by 3GPP TS 24.229. Where this is not possible, extensions to SIP are defined within the present document. The document has therefore been structured in order to allow both forms of specification.

The present document is applicable to Application Servers (ASs), Multimedia Resource Function Controllers (MRFCs), Multimedia Resource Function Processors (MRFP), Media Gateway Control Functions (MGCFs) and to User Equipment (UE) providing conferencing capabilities.

2 References

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

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- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 22.228: "Service requirements for the Internet Protocol (IP) multimedia core network subsystem; Stage 1".
- [3] 3GPP TS 23.218: "IP Multimedia (IM) session handling; IM call model; Stage 2".
- [4] 3GPP TS 24.228 Release 5: "Signalling flows for the IP multimedia call control based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".
- [5] 3GPP TS 24.229: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".
- [6] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".
- [7] IETF RFC 3261 (June 2002): "SIP: Session Initiation Protocol".
- [8] IETF RFC 4353 (February 2006): "A Framework for Conferencing with the Session Initiation Protocol (SIP)".
- [9] IETF RFC 4579 (August 2006): "Session Initiation Protocol Call Control - Conferencing for User Agents".
- [10] IETF RFC 6665 (July 2012): "SIP-Specific Event Notification".
- [11] IETF RFC 4575 (August 2006): "A Session Initiation Protocol (SIP) Event Package for Conference State".