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**Core Network and Interoperability Testing (INT);**
**IMS specific use of Session Initiation Protocol (SIP) and Session Description Protocol (SDP);**
**Conformance Testing;**
**(3GPP Release 10);**
**Part 2: Test Suite Structure (TSS) and Test Purposes (TP)**

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# Contents

Intellectual Property Rights ..... 5
Foreword ..... 5
Modal verbs terminology ..... 5
1 Scope ..... 6
2 References ..... 6
2.1 Normative references ..... 6
2.2 Informative references ..... 6
3 Definitions and abbreviations ..... 7
3.1 Definitions ..... 7
3.2 Abbreviations ..... 7
4 Test configurations ..... 8
4.1 Test configurations using Gm interface only ..... 8
4.2 Test configurations using the Mw interface ..... 8
4.3 Test configurations using the Ic interface ..... 9
4.4 Test configurations using the ISC interface ..... 10
5 Test Suite Structure (TSS) ..... 10
5.1 TP structure ..... 10
5.2 TP naming convention ..... 11
5.3 The tabular symbolic TP presentation format ..... 12
6 Test Purposes (TP) ..... 14
6.1 Test purposes for the Gm interface only ..... 14
6.1.1 General ..... 14
6.1.2 Registration procedures ..... 15
6.1.3 Initial request procedures ..... 23
6.1.4 Standalone requests procedures ..... 31
6.1.5 Subsequent request procedures ..... 35
6.1.6 Target refresh request procedures ..... 46
6.1.7 Emergency procedures ..... 58
6.1.8 Exceptional procedures ..... 61
6.1.9 SDP procedures ..... 64
6.1.10 NAT traversal procedures ..... 66
6.2 Test purposes for the Mw interface ..... 67
6.2.1 General ..... 67
6.2.2 Registration procedures ..... 79
6.2.3 Initial request procedures ..... 104
6.2.4 Standalone requests procedures ..... 127
6.2.5 Subsequent requests on a dialogue procedures ..... 134
6.2.6 Target refresh request procedures ..... 145
6.2.7 Emergency procedures ..... 158
6.2.8 SDP procedures ..... 169
6.3 Test purposes for the Ic interface ..... 174
6.3.1 General ..... 174
6.3.2 Registration procedures ..... 175
6.3.3 Initial request procedures ..... 178
6.3.4 Standalone requests procedures ..... 184
6.3.5 Subsequent requests on a dialogue procedures ..... 186
6.3.6 Target refresh request procedures ..... 191
6.4 Test purposes for the ISC interface ..... 193
6.4.1 General ..... 193
6.4.2 Registration procedures ..... 196
6.4.3 Initial request procedures ..... 199
6.4.4 Standalone requests procedures ..... 204

6.3.5 Subsequent requests on a dialogue procedures ..... 214
6.4.6 Target refresh request procedures ..... 215

**Annex A (informative): Bibliography ..... 220**

History ..... 221

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# Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Core Network and Interoperability Testing (INT).

The present document is part 2 of a multi-part deliverable covering the IMS specific use of Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Conformance Testing, as identified below:

Part 1: "Protocol Implementation Conformance Statement (PICS)";

**Part 2: "Test Suite Structure (TSS) and Test Purposes (TP)";**

Part 3: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification".

# Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**may not**", "**need**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the ETSI Drafting Rules (Verbal forms for the expression of provisions).

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# 1 Scope

The present document provides the Test Suite Structure (TSS) and Test Purposes (TP) for the IP Multimedia core network Subsystem (IMS) equipment supporting the Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) as specified in TS 124 229 [1] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [4] and ETS 300 406 [5].

# 2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

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## 2.1 Normative references

The following referenced documents are necessary for the application of the present document.

[1] ETSI TS 124 229 (V10.14.0): "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3 (3GPP TS 24.229 version 10.14.0 Release 10)".

[2] ISO/IEC 9646-1: "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 1: General concepts".

[3] Void.

[4] ISO/IEC 9646-7: "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 7: Implementation Conformance Statements".

[5] ETSI ETS 300 406: "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

[6] ETSI TS 102 790-1: "Core Network and Interoperability Testing (INT); IMS specific use of Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Conformance Testing; (3GPP Release 10); Part 1: Protocol Implementation Conformance Statement (PICS)".

[7] IETF RFC 4028: "Session Timers in the Session Initiation Protocol (SIP)".

## 2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.1] Void.