



**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)**

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Reference

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# Contents

Intellectual Property Rights .....	4
Foreword.....	4
Modal verbs terminology.....	4
Introduction .....	4
1 Scope .....	5
2 References .....	5
2.1 Normative references .....	5
2.2 Informative references.....	5
3 Definitions and abbreviations.....	6
3.1 Definitions .....	6
3.2 Abbreviations .....	6
4 Conformance .....	6
<b>Annex A (normative): PICS proforma.....</b>	<b>7</b>
A.1 Guidance for completing the ICS proforma .....	7
A.1.1 Purposes and structure.....	7
A.1.2 Abbreviations and conventions .....	7
A.1.3 Instructions for completing the PICS proforma.....	8
A.2 Identification of the Network Equipment.....	9
A.2.1 Date of the statement .....	9
A.2.2 Network Equipment Under Test identification.....	9
A.2.3 Product supplier.....	9
A.2.4 Client .....	10
A.2.5 PICS contact person .....	10
A.3 Identification of the protocol.....	11
A.4 Global statement of conformance.....	11
A.5 PICS proforma tables .....	11
A.5.1 Roles.....	11
A.5.2 P-CSCF Role .....	11
A.5.2.1 P-CSCF Capabilities .....	12
A.5.2.2 P-CSCF header handling .....	20
A.5.3 I-CSCF Role.....	20
A.5.3.1 I-CSCF Capabilities.....	20
A.5.4 S-CSCF Role .....	22
A.5.4.1 S-CSCF Capabilities .....	22
A.5.4.2 S-CSCF header handling .....	27
A.5.5 IBCF Role .....	28
A.5.5.1 IBCF Capabilities .....	28
A.5.6 E-CSCF Role.....	30
A.5.6.1 E-CSCF Capabilities.....	30
History .....	31

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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 1 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".

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## 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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## Introduction

To evaluate protocol conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called a Protocol Implementation Conformance Statement (PICS).

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# 1 Scope

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma 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].

The supplier of a protocol implementation which is claimed to conform to TS 124 229 [1] is required to complete a copy of the PICS proforma provided in annex A of the present document and is required to provide the information necessary to identify both the supplier and the implementation.

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# 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] IETF RFC 3261 (2002): "SIP: Session Initiation Protocol".
- [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] IETF RFC 4412: "Communications Resource Priority for the Session Initiation Protocol (SIP)".
- [7] IETF RFC 5009: "Private Header (P-Header) Extension to the Session Initiation Protocol (SIP) for Authorization of Early Media".
- [8] ETSI TS 133 203: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; 3G security; Access security for IP-based services (3GPP TS 33.203)".

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