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SERIES Q: SWITCHING AND SIGNALLING

Signalling requirements and protocols for the NGN – Testing for next generation networks

Conformance tests specification for the session initiation protocol – Part 1: Protocol Implementation Conformance Statement (PICS) proforma

Recommendation ITU-T Q.3946.1

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Recommendation ITU-T Q.3946.1

Conformance tests specification for the session initiation protocol – Part 1: Protocol Implementation Conformance Statement (PICS) proforma

Summary

Recommendation ITU-T Q.3946.1 proposes a Protocol Implementation Conformance Statement (PICS) proforma for the SIP protocol as described in RFC 3261, "Session Initiation Protocol". This Recommendation endorses technical specification ETSI TS 102 027-1.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
1.0	ITU-T Q.3946.1	2014-08-29	11	11.1002/1000/12221

* To access the Recommendation, type the URL http://handle.itu.int/ in the address field of your web browser, followed by the Recommendation's unique ID. For example, http://handle.itu.int/11.1002/1000/11830-en.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications, information and communication technologies (ICTs). The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure, e.g., interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

INTELLECTUAL PROPERTY RIGHTS

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As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at http://www.itu.int/ITU-T/ipr/.

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Conformance tests specification for the session initiation protocol – Part 1: Protocol Implementation Conformance Statement (PICS) proforma

1 Scope

This Recommendation proposes a Protocol Implementation Conformance Statement (PICS) proforma for the SIP protocol as described in [IETF RFC 3261], "Session Initiation Protocol".

This Recommendation is part 1 of a multi-part deliverable covering Conformance Test Specification for SIP [IETF RFC 3261], as identified below:

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

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

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

2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

[ETSI TS 102 027-1] ETSI TS 102 027-1 v4.1.1 (2006), *Methods for Testing and Specification (MTS); Conformance Test Specification for SIP (IETF RFC 3261); Part 1: Protocol Implementation Conformance Statement (PICS) proforma*.

[ITU-T X.290] Recommendation ITU-T X.290 (1995), *OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – General concepts*.

[ITU-T X.296] Recommendation ITU-T X.290 (1995), *OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Implementation conformance statements*.

[IETF RFC 3261] IETF RFC 3261 (2002), *SIP: Session Initiation Protocol*.

3 Definitions

3.1 Definitions

For the purposes of this Recommendation, the definitions given in [IETF RFC 3261], [ITU-T X.290], [ITU-T X.296] and the following apply:

3.1.1 Implementation Conformance Statement (ICS): Statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented.

NOTE – The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, information object ICS, etc.

3.1.2 ICS proforma: Document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS.

3.1.3 Protocol ICS (PICS): PICS for an implementation or system claimed to conform to a given protocol specification.

4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

HTTP	HyperText Transfer Protocol
ICS	Implementation Conformance Statement
IP	Internet Protocol
PICS	Protocol ICS
PIXIT	partial Protocol Implementation eXtra Information for Testing
SIP	Session Initiation Protocol
UAC	User Agent Client
UAS	User Agent Server

5 Conventions

The conventions given in clause 5.2 of [ETSI TS 102 027-1] apply.

6 Conformance requirement

The supplier of a protocol implementation, which is claimed to conform to the requirements of [IETF RFC 3261], shall verify that his protocol implementation meets the requirements described in the present Recommendation. All the requirements described in [IETF RFC 3261] apply.

An ICS, which conforms to the present Recommendation, shall be a conforming ICS proforma completed in accordance with the guidance for completion given in clause 7.

7 Guidance for completing the PICS proforma

7.1 Purposes and structure

The purpose of the ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in [IETF RFC 3261] provides information about the implementation in a standardized manner.

The PICS proforma is subdivided into clauses for the following categories of information:

- Instructions for completing the PICS proforma;
- Identification of the implementation;
- Identification of the protocol; and
- Global statement of conformance.

The ICS proforma contained in Annex A is comprised of information in tabular form in accordance with the guidelines presented in [ITU-T X.296], and as described in clause 5.2 of [ETSI TS 102 027-1].

Annex A

PICS Proforma for IETF RFC 3261

(This annex forms an integral part of this Recommendation.)

Annex A of [ETSI TS 102 027-1] applies.

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