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SERIES Q: SWITCHING AND SIGNALLING

Testing specifications – Testing specifications for SIP-IMS

**Conference service using IP multimedia core
network subsystem; Conformance testing –
Part 1: Network side and user side; Protocol
implementation conformance statement**

Recommendation ITU-T Q.4005.1

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Recommendation ITU-T Q.4005.1

Conference service using IP multimedia core network subsystem; Conformance testing – Part 1: Network side and user side; Protocol implementation conformance statement

Summary

This Recommendation is part 1 of the testing specifications for CONF services implemented on an IMS basis on the network and user side. The standard specifies the protocol implementation conformance statement (PICS) which can be used for testing against Recommendation ITU-T Q.3621 v.1 (2016).

The version number, v.1, indicates that this is version one of Recommendation ITU-T Q.4005.1, and that it relates to Release 10 of the relevant 3GPP/ETSI standard.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
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CONF, IMS, network side, SDP, SIP, PICS, user side, testing.

* 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>.

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Recommendation ITU-T Q.4005.1

Conference service using IP multimedia core network subsystem; Conformance testing – Part 1: Network side-and user side; Protocol implementation conformance statement

1 Scope

The following ITU-T Recommendation provides the implementation conformance statement (ICS) proforma for the CONF supplementary services defined in [ITU-T Q.3621 v.1].

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.

- [ITU-T Q.3621 v.1] Recommendation ITU-T Q.3621 v.1 (2006), *CONF using IP multimedia core network subsystem – Protocol specification*.
- [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.296 (1995), *OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Implementation conformance statements*.
- [ETSI TS 124 147] ETSI TS 124 147 V10.5.0 (2015-01), *Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3 (3GPP TS 24.147 version 10.5.0 Release 10)*.
- [ETSI TS 124 628] ETSI TS 124 628 V10.4.0 (2013-01), *Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Common Basic Communication procedures using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification (3GPP TS 24.628 version 10.4.0 Release 10)*.

3 Definitions

For the purposes of this Recommendation, the following terms and definitions apply:

- terms and definitions defined in [ITU-T Q.3621 v.1];
- terms and definitions defined in [ITU-T X.290] and in [ITU-T X.296].

In particular, the following terms and definitions defined in [ITU-T X.290] apply:

3.1 implementation conformance statement (ICS): A statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented. The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, and information object ICS.

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

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

NOTE – This may contain additional information.

4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

ICS Implementation Conformance Statement

IUT Implementation Under Test

PICS Protocol Implementation Conformance Statement

SCS System Conformance Statement

5 Conformance to this PICS proforma specification

If it claims to conform to this Recommendation, the actual PICS proforma to be filled in by a supplier shall be technically equivalent to the text of the PICS proforma given in this clause, and shall preserve the numbering/naming and ordering of the proforma items.

A PICS which conforms to this Recommendation shall be a conforming PICS proforma completed in accordance with the guidance for completion given in clause 5.1.

5.1 Guidance for completing the PICS proforma

5.1.1 Purposes and structure

The purpose of this PICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in [ITU-T Q.3621 v.1] may provide information about the implementation in a standardized manner.

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

- guidance for completing the PICS proforma;
- identification of the implementation;
- identification of the <reference specification type>;
- global statement of conformance;
- *roles*;
- *user role*;
 - *major capabilities*;
- *network role*;
 - *major capabilities*;

5.1.2 Abbreviations and conventions

The PICS proforma contained in this clause is comprised of information in tabular form in accordance with the guidelines presented in [ITU-T X.296].

Item column

The item column contains a number which identifies the item in the table.

Item description column

The item description column describes, in free text, each respective item (e.g., parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

Status column

The following notations, defined in [ITU-T X.296], are used for the status column:

- m mandatory – the capability is required to be supported.
- o optional – the capability may be supported or not.
- n/a not applicable – in the given context, it is impossible to use the capability.

Reference column

The reference column makes reference to [ITU-T Q.3621 v.1], except where explicitly stated otherwise.

Support column

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in [ITU-T X.296], are used for the support column:

Y or y supported by the implementation.

N or n not supported by the implementation.

N/A, n/a or – no answer required (allowed only if the status is n/a, directly or after evaluation of a conditional status).

Prerequisite line

A prerequisite line takes the form: Prerequisite: <predicate>.

A prerequisite line after a clause or table title indicates that the whole clause or the whole table is not required to be completed if the predicate is FALSE.

5.1.3 Instructions for completing the PICS proforma

The supplier of the implementation shall complete the PICS proforma in each of the spaces provided. In particular, an explicit answer shall be entered, in each of the support column boxes provided, using the notation described in clause 5.1.2.

However, the tables containing in "user role" clause shall only be completed for user implementations, and the tables containing in "network role" clause shall only be completed for network implementations.

If necessary, the supplier may provide additional comments in the space at the bottom of the tables or separately.

More detailed instructions are given at the beginning of the different clauses of the PICS proforma.

5.2 Identification of the implementation

Identification of the implementation under test (IUT) and the system in which it resides (the system under test (SUT)) should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

5.2.1 Date of the statement

.....

5.2.2 Implementation Under Test (IUT) identification

IUT name:

.....

.....

IUT version:

.....

5.2.3 System Under Test (SUT) identification

SUT name:

.....

.....

Hardware configuration:

.....

.....

.....

Operating system:

.....

5.2.4 Product supplier

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

5.2.5 Client (if different from product supplier)

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

5.2.6 PICS contact person

(A person to contact if there are any queries concerning the content of the ICS)

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

5.3 Identification of ITU-T Q.3621 v.1

This PICS proforma applies to the following standard:

ITU-T Q.3621 v.1, "CONF using IP multimedia core network subsystem – Protocol specification".

5.4 Global statement of conformance

Are all mandatory capabilities implemented? (Yes/No).....

NOTE – Answering "No" to this question indicates non-conformance to the <reference specification type> specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming, on pages attached to the PICS proforma.

5.5 Roles

Table 5.1 – Roles

Item	Item description	Reference	Status	Support
1	User	Clause 4.5.2.1 of [ITU-T Q.3621 v.1]	o.1	
2	Network	Clause 4.5.2.2 of [ITU-T Q.3621 v.1]	o.1	

o.1: It is mandatory to support exactly one of these items.

Comments:

5.6 User role

This clause contains the PICS proforma tables related to the user role. They need to be completed only for user implementations:

Prerequisite: 5.1/1 -- user role

5.6.1 Major capabilities

Table 5.2 – User related requirements and options

Item	Item description	Reference	Status	Support
1	The user equipment has implemented the role of a Conference participant?	Clause 5.2.1 of [ETSI TS 124 147]	o	
2	The user equipment is able to invite a participant using a Resource list?	Clause 4.4a of [ETSI TS 124 628]	o	

Comments:

5.7 Network role

This clause contains the PICS proforma tables related to the network role. They need to be completed only for network implementations:

Prerequisite: 5.1/2 -- network role

5.7.1 Major capabilities

Table 5.3 – Network related requirements and options

Item	Item description	Reference	Status	Support
1	Is the conference notification service is implemented?	Clause 5.3.3 of [ETSI TS 124 147]	o	
2	It is possible to invite a participant using a REFER request?	Clause 5.3.2.5.2 of [ETSI TS 124 147]	o	
3	It is possible to invite a participant using a resource list?	Clause 4.4a of [ETSI TS 124 628]	o	
4	Is the special REFER request handling procedure supported?	Clause 5.3.2.3.1, 4) of [ETSI TS 124 147]	o	
5	Is the use of preconditions supported?	Clause 5.3.2.3.1, 4) of [ETSI TS 124 147]	o	
6	Does the network support the originating identification restriction service?	Clause 4.6.5 of [ITU-T Q.3621 v.1]	o	
7	Does the network support the terminating identification restriction service?	Clause 4.6.3 of [ITU-T Q.3621 v.1]	o	
8	Does the network support the anonymous communication rejection and communication barring service?	Clause 4.6.9 of [ITU-T Q.3621 v.1]		

Comments:

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