DRAFT INTERNATIONAL STANDARD ISO/IEC 29341-25-13

Attributed to ISO/IEC JTC 1 by the Central Secretariat (see page iii)

Voting begins on
2015-09-03

Voting terminates on
2015-12-03

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION
INTERNATIONAL ELECTROTECHNICAL COMMISSION • МЕЖДУНАРОДНАЯ ЭЛЕКТРОТЕХНИЧЕСКАЯ КОММИСИЯ • COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

PUBLICLY AVAILABLE SPECIFICATION PROCEDURE

Information technology — UPnP Device Architecture

Part 25-13:
Telephony device control protocol — Messaging service

Technologies de l'information — Architecture de dispositif UPnP —

Partie 25-13

ICS 35.200

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Published in Switzerland

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The ballot on the transposition of a PAS into an International Standard follows the JTC 1 PAS procedures contained in the JTC 1 Supplement, F.3.

Reflecting the importance of the PAS process, the JTC 1 secretariat shall also inform JTC 1 national bodies and Liaison Organisations, and those organisations authorized to be PAS submitters, of the initiation of any PAS ballot, the results of the ballot, and the identity of the JTC 1 subcommittee which will be responsible for any future work.

For ballot, JTC 1 National Bodies and the PAS Submitter shall receive both the PAS to be transposed and the accompanying Explanatory Report. During the ballot JTC 1 members may propose changes to the PAS. These can be resolved with the PAS Submitter after completion of the ballot.

The period for combined DIS voting shall be five months. In order to be accepted the DIS must be supported by 75 % of the votes cast (abstention is not counted as a vote) and by two-thirds of the P-members voting of JTC 1.

In the case of a failure of the ballot, JTC 1 shall make known to the Submitter the reasons which have led to the negative result. Based on this information, the Submitter may choose to re-submit a modified specification as a new PAS submission.

Once the Draft International Standard has been approved by JTC 1, it shall progress to the approval stage (FDIS).

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Normative Terminology Changes

You ***must*** use the command `Old LoCase` from the Review group of the UPnP ribbon tab to locate and process lower case terms whose ISO/IEC meanings differ from their former UPnP meanings. Each such term is marked with a hidden bookmark, so there is no other easy way to identify them. (The former macro, `Review_OldLowerCase_Terms`, has been removed from the Word template `upnp4iecAdjunct.dotm`.)

Unlike upper case normative terms, lower case terms with new meanings cannot be mechanically corrected in the conversion for ISO/IEC. Each Working Committee needs to evaluate each of these terms in context to determine what changes to make.

Marked terms fall into one of the four following categories:

- **Non-normative in UPnP** (possibly with normative intent) → **normative in ISO/IEC**.
  Examples: "required", "shall", "recommended", "should", "may".
  - *Do not change*: Instances that actually had normative intent, but were not upper-cased.
  - *Change*: Instances that really were non-normative, to remain non-normative.

- **Non-normative in UPnP** (possibly with normative intent) → **statutory (legal or regulatory compliance) in ISO/IEC.**
  Example: "must".
  - *Do not change*: Instances that actually had statutory intent.
  - *Change*: Instances that actually had normative intent, but were not upper-cased.
    Example: "must" → "shall".
  - *Change*: Instances that really were non-normative, to remain non-statutory.

- **Non-normative in UPnP** (probably with normative intent) → **non-normative in ISO/IEC.**
  Examples: "mandatory", "prohibited", "optional".
  - *Change*: Instances that actually had normative intent, to be normative in ISO/IEC.

    Common replacements:
    "mandatory" → "required" "… is mandatory" → "shall …"
    "prohibited" → "not allowed"
    "optional" → "allowed"
  - *Change*: Instances of "mandatory" and "prohibit(s | ed | ing | ion)" that really were non-normative, to remain non-normative. The *ISO/IEC Directives* use the word "prohibit" in the definition of normative terms, and the word "mandatory" even more broadly in the definition of both normative and statutory terms.
  - *No need to change*: Non-normative instances of "optional".

- **Non-normative in UPnP → normative in ISO/IEC.**
  Examples: "ought", "allow", "permissible", "permit", "accept".

  Change: All instances, to avoid becoming normative.

More information about ISO/IEC normative (and more general "provisioning") terms may be found in the *ISO/IEC Directives, Part 2*, Annex H.

Table 0 — Open issues for ISO/IEC conversion

Status [a]	Document Locations [b]	Description [c]	UPnP Notes
U	2	WC must complete the entries for RFCs 3261 and 3966 in Normative references. Both RFCs are referenced in this document but did not appear in the reference list. GSC added the bookmarks and placeholders for them in 2, and replaced manual cross-references to them with proper hyperlinks.	
U	Table 9	The Eventing and Moderation table structure is non-standard. Please copy a model from an AV document that has been prepared this year for IEC submittal.	
AU	#	As in CallManagement-v1.docx, this document contained a large number of instances of inappropriately applied character styles. Among these were: • direct formatting to achieve the *forum* and *vendor* character styles instead of using the named styles • instances where the visually apparent style of text was "Default Paragraph Font", but it was achieved by applying direct formatting to the text *on top of* a named character style to *negate* the effects of the named style. Many of these instances were in white space on either side of text where the named style is properly used • occurrences of the style **In-line Guidance - 8 pt**. Most of these were overridden with direct formatting to achieve other effects. Many were were space characters between words where their effect was not visible. • Many table headings were made bold by direct formatting rather than using the normal UPnP table style (which is now obsolete and has been replaced by ISO/IEC required styles.)	
G-U	#	**Hanging paragraphs, singleton subdivisions** When a clause/subclause is subdivided into subclauses or an annex is subdivided into clauses, neither hanging paragraphs nor singleton subdivisions are allowed. • A *hanging paragraph* is any text, table, figure or any other content between the parent numbered paragraph and the first child subdivision. • A *singleton subdivision* is when there is only one subdivision at any level. There must be at least 2. **Pending GSC action:** GSC [c] will provide a command to detect both hanging paragraphs and singleton subdivisions. **Pending UPnP action:** UPnP editors should correct all hanging paragraphs and singleton subdivisions as they encounter them, but the tool to identify them is coming.	

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G-U	#	**Cross-reference form** The *ISO/IEC Directives* require that all document cross-references to tables, figures, clauses, subclauses and subclauses be to the referent's (alpha)numeric designator, *not* to its title/caption/label. **Pending GSC action:** GSC will provide a command for the following UPnP use: **Pending UPnP action:** UPnP editors will use new command to walk through the document, stopping at each cross-reference that references the target's text instead of its alphanumeric designator, so that the editor can correct it.	
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Status [a]	Document Locations [b]	Description [c]	UPnP Notes

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- • Informational, requires no action by anyone.
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- G-U An issue that awaits action by GSC, and then requires follow-up action by UPnP.
- U An issue that requires action by UPnP.
- U? An issue that GSC considers closed, but UPnP might disagree. UPnP should review.
- AU An issue that was resolved during conversion by GSC, but that UPnP needs to understand to avoid problem recurrence
- ✓ Issue is closed.

b **Document Locations**:

- # Numerous instances, not specifically identified.
- — Document generic, not tied to specific locations.

c GSC: G Shults Consulting, ISO/IEC conversion contractor

Messaging:1 Service

For UPnP Version 1.0

Status: Standardized DCP (SDCP)

Date: March 22, 2011

Document Version: 1.0

Service Template Version: 2.00

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1 ~~Overview and~~ Scope

This service definition is compliant with [1] ~~the UPnP Device Architecture version 1.0~~. It defines a service type referred to herein as *Messaging* service.

~~1.1 Introduction~~

The *Messaging* service is a UPnP service that allows control points to use the messaging features provided by a Telephony Server (TS) or a Telephony Client (TC).

It provides in the UPnP network the overall set of messaging capabilities of a phone (e.g., smartphone, IP phone, VoIP gateway, etc.), as the role of a TS. Additionally, or as an alternative, a device with the role of a TC can provide the *Messaging* service via UPnP *Telephony*.

This service provides the control points with the following functionalities:

- Page Mode Messaging (e.g., e-Mail, SMS, MMS, etc.): notification of incoming messages, reading messages, sending a message, deleting a message.
- Session Mode Messaging (e.g., Instant Messaging, SMS, etc.): notification of incoming messages, retrieving and sending the messages within a session, creating, modifying or closing a messaging session.
- File transfer session, to transfer the files in near real time.

This service does not provide the following functionalities:

- Connection to a remote server for sending or receiving the messages (e.g., WAN side);
- Rendering of message notifications and messages to the end user;
- Configuring the *Messaging* service with account for connecting to remote servers;

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.~~This section lists the normative references used in this specification and includes the tag inside square brackets that is used for each such reference:~~

[1] – UPnP Device Architecture, version 1.0, UPnP Forum, June 13, 2000.
Available at: http://www.upnp.org/specs/architecture/UPnP-DeviceArchitecture-v1.0-20000613.htm.
Latest version available at: http://www.upnp.org/specs/arch/UPnP-arch-DeviceArchitecture-v1.0.pdf.

[2] – Data elements and interchange formats – Information interchange -- Representation of dates and times, International Standards Organization, December 21, 2000.
Available at: ISO 8601:2000.

[3] – IETF RFC 2046, Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types, N. Freed, Innosoft, N. Borenstein, First Virtual, November 1996.
Available at: http://www.ietf.org/rfc/rfc2046.txt

~~[RFC2119] – IETF RFC 2119, Key words for use in RFCs to Indicate Requirement Levels, S. Bradner, 1997.~~
~~Available at: http://www.faqs.org/rfcs/rfc2119.html.~~

[4] – IETF RFC 2396, Uniform Resource Identifiers (URI): Generic Syntax, T. Berners-Lee, MIT/LCS, R. Fielding, U.C. Irvine, L. Masinter, Xerox Corporation, August 1998.
Available at: http://www.ietf.org/rfc/rfc2396.txt

[5] IETF RFC 3261

Comment [GSC1]:
Add details

[6] – IETF RFC 3339, Date and Time on the Internet: Timestamps, G. Klyne, Clearswift Corporation, C. Newman, Sun Microsystems, July 2002.
Available at: http://www.ietf.org/rfc/rfc3339.txt.

[7] IETF RFC 3966

Comment [GSC2]:
Add details

[8] – Extensible Markup Language (XML) 1.0 (Third Edition), François Yergeau, Tim Bray, Jean Paoli, C. M. Sperberg-McQueen, Eve Maler, eds., W3C Recommendation, February 4, 2004.
Available at: http://www.w3.org/TR/2004/REC-xml-20040204.