DRAFT INTERNATIONAL STANDARD ISO/IEC 29341-25-12

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 25-12:
Telephony device control protocol — Media management service

Technologies de l'information — Architecture de dispositif UPnP —

Partie 25-12

ICS 35.200

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Published in Switzerland

NOTE FROM ITTF

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.

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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	Table 5	The Eventing and Moderation table structure is non-standard. Please copy a model from another document that has been prepared this year for IEC submittal.	
U	Annex C	All figure formatting is non-compliant. Each figure needs a caption. The caption number can be inserted for each figure by selecting the figure or the paragraph that contains it and invoking the command labeled "FCap" from the "Insert" group of the "UPnP" Ribbon tab.	
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.)	
AU	Annex C	All of the sample messages with their XML content were formatted with a document-unique character style, "messages". This produced acceptable visual style for HTTP headers, but it did not produce the standard visual style for XML content. GSC applied the new standard HTTP header style of "ncode" to the headers, and the new standard style "xcode" to the XML content.	

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Status [a]	Document Locations [b]	Description [c]	UPnP Notes
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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a **Status key:**
- • 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

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MediaManagement: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 the *MediaManagement* service.

~~1.1 Introduction~~

The *MediaManagement* service enables the feature to set-up a media session on a Telephony Client (TC), under the control of a Telephony Control Point (TelCP). This service provides the following functions:

- Set up a media session to send and/or receive media streams between a TC and a TS. To set up a media session, The *MediaManagement* service provides an interface for a TelCP to negotiate the media capabilities (e.g., codec types, IP address, port number etc.) between a TC and a TS. This ensures a TelCP to select a common set of the media capabilities to be used to send and/or receive media streams between a TS and a TC. After the media session is established, the TC starts sending and/or receiving media streams based on the media chapabilities negotiated between the TC and the TS.
- The mechanism to modify the media capabilities of an existing media session. For instance, if a media session is created for sending and receiving an audio media stream, it is possible to modify the media session for sending and receiving a video media stream.
- The mechanism to terminate a media session.

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.

[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.

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