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PUBLICLY AVAILABLE SPECIFICATION PROCEDURE

# Information technology — UPnP Device Architecture

## Part 25-10:
## Telephony device control protocol — Call management service

*Technologies de l'information — Architecture de dispositif UPnP —*

*Partie 25-10*

ICS 35.200

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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.

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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 10 | 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 | # | There remain many occurrences of names defined by the CallManagement service that are not formatted with the *forum* style, including the subclause titles in the parent subclause 5.3. | |
| U | Annex D | All figure formatting is non-compliant. Each figure needs a caption.<br><br>GSC added the caption number to the first few figures in the annex, but the WC needs to provide caption text for those, and the complete caption for all remaining figures.<br><br>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 | # | This document contained well over one thousand instances of inappropriately applied character styles. Among these were:<br>• ~500 occurrences of direct formatting to achieve the *forum* character style instead of using the named *forum* style<br>• hundreds of instances where the visually apparent style of text is “Default Paragraph Font”, but it is achieved by applying direct formatting to the text *on top of* a named character style to *negate* the effects of the named style.<br>  ◦ Many of these instances are in white space on either side of text where the named style is properly used<br>  ◦ A significant number, however, were text chunks of arbitrary length, usually following a proper use of the style to the end of the sentence or paragraph. Some of these included entire paragraphs styled with the *forum* style overridden by direct formatting except for 3 or 4 ocurrences of properly *forum*-styled names.<br>• Hundreds more instances where the visually apparent style of text is one named character style, but it is achieved by applying direct formatting to the text *on top of* a *different* named character style..<br>• ~100 uses of the style **In-line Guidance - 8 pt**. Most of these were overridden with direct formatting to achieve other effects, including the visual equivalents of the *forum* and charXcode styles (charXcode replaces code for ISO/IEC).<br>• All 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.) | |

| Status [a] | Document Locations [b] | Description [c] | UPnP Notes |
|---|---|---|---|
| AU | 2 | GSC added bookmarks for the Normative references RFC2396, RFC3261, RFC3966, RFC4566, MMS—named, respectively, rfc2396Ref, rfc3261Ref, rfc3966Ref, rfc4566Ref, mmsRef.<br><br>Corrected multiple invalid URIs for RFCs. | |
| AU | Annex E | GSC added bookmarks for the informative references (in the new Bibliography annex) RFC3550, TSBP, DP—named, respectively, rfc3550Ref, tsbpRef, dpRef. | |
| AU | # | Since the 8 aforementioned external references in 2 and Annex E were not previously bookmarked, all internal references to them were "hard-coded" manual cross-references. GSC replaced all such manual cross-references with standard bookmark hyperlink cross-references. | |
| AU | Annex D | 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.<br><br>GSC applied the new standard HTTP header style of "ncode" to the headers, and the new standard style "xcode" to the XML content. | |
| | | | |
| G-U | # | **Hanging paragraphs, singleton subdivisions**<br><br>When a clause/subclause is subdivided into subclauses or an annex is subdivided into clauses, neither hanging paragraphs nor singleton subdivisions are allowed.<br><br>• A *hanging paragraph* is any text, table, figure or any other content between the parent numbered paragraph and the first child subdivision.<br><br>• A *singleton subdivision* is when there is only one subdivision at any level. There must be at least 2.<br><br>**Pending GSC action:** GSC [c] will provide a command to detect both hanging paragraphs and singleton subdivisions.<br><br>**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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| Status [a] | Document Locations [b] | Description [c] | UPnP Notes |
|---|---|---|---|
| G-U | # | **Cross-reference form**<br><br>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.<br><br>**Pending GSC action:** GSC will provide a command for the following UPnP use:<br><br>**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. | |
| G | — | **Remove old styles**<br><br>This document still contains ¶ and character styles used before the ISO/IEC conversion. These style need to be removed.<br><br>**Pending GSC action:** GSC will provide a command that will automatically remove all of the old styles. | |
| G | — | **Use only approved styles**<br><br>Word 2007 and 2010 can be configured to disable use of all styles not in the approved style sets for UPnP and ISO/IEC documents.<br><br>**Pending GSC action:** GSC will provide a command to toggle the allowing and disallowing of unapproved styles. | |
| G-U | — | **Dual publishers**<br><br>UPnP specifications are intended to be published by both UPnP and ISO/IEC. There are some minor differences in content and style between the two publishers.<br><br>**Pending GSC action:** GSC will provide a command to toggle between publishers and check for document features disallowed by the designated target publisher. This includes but is not limited to:<br><br>• Normative references may include UPnP documents when UPnP is the publisher. Only their ISO/IEC equivalents are allowed in ISO/IEC publications.<br><br>• Header/footer contents differ.<br><br>• Self-references to "this document" in UPnP become "this part of ISO/IEC 29341" in ISO/IEC.<br><br>**Pending UPnP action:** Be aware of and manage these differences when preparing final versions for publication. | |

[a] **Status key:**
- • Informational, requires no action by anyone.
- G An issue that awaits action by G Shults Consulting (GSC).
- 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

*CallManagement:1* Service

For UPnP Version 1.0

Status: Standardized DCP (SDCP)

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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 *CallManagement* service.

## ~~1.1 Introduction~~

The *CallManagement* service is a UPnP service that allows control points to use the telephony features(e.g., voice call, video call, and data transfer etc.) provided by a Telephony Server (TS).

The *CallManagement* service enables the following features to a Telephony Control Point (TelCP):

- start an outgoing call
- accept an incoming call
- modify the capability of an existing call (e.g., changing from a voice call to a video call)
- terminate a call
- preview call logs
- register a call back and check the availability of the registered call back

To realize these features, the *CallManagement* service manages the connectivity of calls and media streams.

## 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.


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Latest version available at: http://www.upnp.org/specs/phone/UPnP-phone-MediaManagement-v1-Service.pdf.


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