DRAFT INTERNATIONAL STANDARD ISO/IEC 29341-25-14

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 25-14:
Telephony device control protocol — Phone management service

Technologies de l'information — Architecture de dispositif UPnP —

Partie 25-14

ICS 35.200

This Publicly Available Specification (PAS) is being submitted for Fast-track processing in accordance with the provisions of ISO/IEC JTC 1 Directives.

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
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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.

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 macro `Review_OldLowerCase_Terms` 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 macro is in the accompanying 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.

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PhoneManagement:1

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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Authors [a]	Company
Alessandro De Vincentis	Telecom Italia
Enrico Grosso (Editor)	Telecom Italia
Jooyeol Lee	Samsung Electronics
Jeyoung Maeng	Samsung Electronics
Massimo Messore	Telecom Italia
Davide Moreo (Editor)	Telecom Italia
Yoshiki Nishikawa	NTT
Mayuresh Patil	Samsung Electronics
Mahfuzur Rahman	Samsung Electronics
Yu Zhu	Huawei

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1 ~~Overview and~~ Scope

This document specifies the *PhoneManagement profile of the ConfigurationManagement* Service defined in [7].

~~This document specifies the *ConfigurationManagement* Service Profile (see section: 3, *ConfigurationManagement* Service Profile) herein referred as *PhoneManagement*.~~

The *PhoneManagement* profile can be used for managing the configuration of the UPnP *TelephonyServer* device (i.e. a telephone), ~~for e.g.~~ with tasks such as managing an address book, configuring the settings of the phone, configuring the ringing modes, checking the battery level of the phone. This profile is compliant with the UPnP Telephony Architecture.

~~The *PhoneManagement* is a profile of the *ConfigurationManagement* service as defined in [7] by the UPnP *DeviceManagement* WC for configuration management of specific features of a phone for e.g. Address Book, Phone settings etc. For this purpose, the *PhoneManagement*~~ defines

- A profile of the CMS ~~service~~ in order to satisfy the requirements for *PhoneManagement* (see clause ~~section:~~ 5).
- The *Phone Data Model* to perform configuration management of the specific features of a phone (see Annex A) by reusing the CMS data model (see~~: Appendix B, Common Objects, in~~ [7], Annex B).

~~1.1 Introduction~~

The *ConfigurationManagement* service offers a general purpose data model and a set of configuration management operations for retrieving and managing the actual configuration parameters of a device. These features are completely reused from CMS in the *PhoneManagement*.

The *ConfigurationManagement* service defines the functions for manipulating the configuration and status parameters that are exposed by the device hosting the *ConfigurationManagement* service. These actions and state variables defined in the *ConfigurationManagement* service are reused in order to manage the configuration parameters of a *TelephonyServer* device for e.g. phone, defined in the data model of the *PhoneManagement*.

The main goal of this specification ~~document~~ is to define the data model (called herein as *Phone Data Model*) for the *TelephonyServer* device like Phone, according to the rules defined by the *ConfigurationManagement* service for defining a new data model.

The *Phone Data Model* is organized as a hierarchical tree of parameter sets, where each set represent a feature of a *TelephonyServer* (e.g. address book, ringing modes etc) that can be managed by a TelCP.

Comment [gls1]:
Needs reference.

Comment [gls2]:
Deleted because it's redundant.

Comment [gls3]:
x.1 subclause not allowed without and *x*.2.

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~~1.2 Notation~~

~~1.3 Vendor-defined Extensions~~

Comment [gls4]:
Moved to clause 4

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 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 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.

[5] – 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.

[6] – XML Schema Part 2: Data Types, Second Edition, Paul V. Biron, Ashok Malhotra, W3C Recommendation, 28 October 2004.
Available at: http://www.w3.org/TR/2004/REC-xmlschema-2-20041028.

[7] – *UPnP ConfigurationManagement:1 Service Document*, UPnP Forum, July 5, 2010.
Available at: http://www.upnp.org/specs/arch/UPnP-dm-ConfigurationManagement-v1.0-Service.pdf

[8] – IETF RFC 2426, vCard MIME Directory Profile, F. Dawson, Lotus Development Corporation, T. Howes, Netscape Communications, September 1998. Available at: http://www.ietf.org/rfc/rfc2426.txt.

Comment [gls5]:
The original document had a bookmark named "CaMSRef" that marked a single space character a the beginning of this line. There were no referenc to that bookmark name in the document, so I deleted it.

3 Terms, definitions, symbols and abbreviated terms

For the purposes of this document, the terms and definitions given in [1] and the following apply.

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