INTERNATIONAL STANDARD

ISO/IEC 9973

Third edition
2013-07-15

Information technology — Computer graphics, image processing and environmental data representation — Procedures for registration of items

Technologies de l'information — Infographie, traitement de l'image et représentation des données environnementales — Procédures pour l'enregistrement des articles

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Reference number
ISO/IEC 9973:2013(E)

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Published in Switzerland

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 9973 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 24, *Computer graphics, image processing and environmental data representation*.

This third edition cancels and replaces the second edition (ISO/IEC 9973:2006), which has been technically revised.

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Introduction

This International Standard provides a set of procedures for managing the International Register of Items. In this context, items are members of classes defined within the standards developed by ISO/IEC JTC 1/SC 24 that may be registered. The set of procedures specified in this International Standard is equally applicable to any standard that includes a provision for registering items in the International Register of Items.

Standards that wish to use the International Register of Items may have certain classes of items in common that are allowed to vary across implementations of those standards. There is a strong incentive for implementations using the same registered items to reference them in the same way. Each such standard has the potential to provide for registration of items of certain classes and expressly identifies those classes of items that may be registered. When such a standard is published, those classes of items identified for registration are automatically added to the International Register of Items.

The procedures in this International Standard are used in preparing, maintaining, and publishing the International Register of Items. The register includes current classes of items from relevant International Standards whose content can be extended through registration. The classes of items are listed within the register and therefore maintained separately from this International Standard. The register also serves as a means to inform all concerned of items already registered and of the specific identifiers assigned to them. Registration provides identification for an item but should not be regarded as a standardization procedure.

Annex A identifies the information needed in submitting item proposals. Annex B contains example proposal forms. Annex C contains language binding guidelines for submission of registration proposals. Annex D contains encoding guidelines for submission of registration proposals.

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Information technology — Computer graphics, image processing and environmental data representation — Procedures for registration of items

1 Scope

This International Standard specifies procedures to be followed in preparing, maintaining and publishing the International Register of Items for any standard whose classes of items are applicable to this register. The items that may be registered fall into several broad categories including:

— computer graphics concepts,

— data structures used by relevant standards,

— spatial and environmental concepts, and

— profiles of relevant standards.

2 Normative references

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The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

None.

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3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
approval body
organization that approves or rejects proposals

3.2
clarification
non-substantive change to a *registered item*

3.3
class
set of *items* with common properties or that are common in application to a relevant International Standard

3.4
deprecated item
items that have been approved for removal because they were found to be obsolete or in error

Note 1 to entry: Deprecated items are retained in the register, but marked as “deprecated”.

3.5
Generalized Drawing Primitive
GDP
primitive required for graphical item registration

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3.6
International Register of Items
the set of *class*es and their corresponding *item*s that are covered by this International Standard

3.7
item
a member of a *class* covered by this International Standard

3.8
notification recipients
member bodies of relevant ISO and IEC committees and/or subcommittees, relevant Category A, B and C liaisons, and relevant *sponsoring authorities*

3.9
register identifier
an identifier assigned by the *registration authority* that uniquely identifies an *item* within the scope of a single *class*

3.10
registered item
an *item* approved for inclusion in the *International Register of Items* using the procedures specified in this International Standard

3.11
registration
assignment of a permanent, unique and unambiguous identifier to an *item* with its related descriptive information and placement in the *International Register of Items*

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3.12
registration authority
organization to which management of a register has been designated by the ISO Technical Management Board

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3.13
section
a group of one or more related *class*es

3.14
sponsoring authority
organization that is authorized to submit *registration* proposals

3.15
standardized item
item specified by the International Standard that defines the *class* to which the *item* has been associated

4 Concepts

4.1 Overview

Standards that include registration provisions, as specified by this International Standard, are supported by the International Register of Items. The International Register of Items provides the following features:

— a register of identifiers and meanings that may be shared between related standards,

— new instances of concepts in the related standards to be specified by registration, and

— a repository where both standardized and registered items may be browsed or searched.

This International Standard specifies procedures that manage the International Register of Items, which is organized into sections. The International Register of Items is maintained by the registration

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authority. Proposals related to the International Register of Items are submitted by sponsoring authorities, processed by the registration authority and approved by the relevant approval body.

4.2 Registration authority

4.2.1 Appointment of a registration authority

The registration authority for this International Standard is established in accordance with ISO/IEC Directives, Part 1, Annex H and is approved by the ISO Technical Management Board as part of a ten-year agreement to maintain the International Register of Items. Contact information for registration authorities of International Standards including this one are maintained and available at

http://www.iso.org/iso/standards_development/maintenance_agencies.htm.

4.2.2 Overview of registration authority responsibilities

The registration authority shall maintain the International Register of Items. Upon request, the registration authority shall distribute information including a description of the International Register of Items and how to submit proposals. Additional information on the responsibilities of the registration authority is provided in Clause 5 and Figure 1.

4.3 Sponsoring authorities

4.3.1 Authorized sponsoring authorities

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Proposals for changing the content of the register may be made by the following organizations that are authorized to be sponsoring authorities for the purposes of this International Standard:

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a) any ISO or IEC Technical Committee or Subcommittee;

b) any P-member or O-member of ISO/IEC JTC 1 or its subcommittees;

c) any international organization having Category A, B, or C liaison status with ISO/IEC JTC 1 or its subcommittees.

4.3.2 Responsibilities of sponsoring authorities

The responsibilities of sponsoring authorities shall be as follows:

a) to receive proposals from within their respective countries or organizations;

b) to coordinate proposals within their respective countries or organizations, as necessary;

c) to ensure that all proposals are complete and conform to the requirements for the class of an item;

d) to ensure, if a language binding and/or encoding is required, at least one language binding and/or data encoding shall be included;

e) to forward to the registration authority proposals that are ready to be submitted;

f) to respond to questions and coordinate changes derived from comments received from the registration authority; and

g) to disseminate the decisions taken on proposals to their respective countries or organizations.

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4.4 Items

The International Register of Items operates under the procedures of this International Standard and allows for varied classes of items within the scope of this International Standard including:

— graphical items,

— data structures used by relevant standards,

— environmental data representation items, and

— profiles of standards.

The addition of a new item to the register increases the range of applicability of that standard, but does not change the basic concepts of the standard.

4.5 Sections

A separate section is provided either for a set of classes that are related to a single International Standard or for individual classes related to one or more International Standards. A section is populated by one or more classes. The classes may be populated with standardized and/or registered items as specified by the relevant International Standard(s).

4.6 Registration process

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Proposals for the additions of new items to the register are submitted by a sponsoring authority (see 4.3). The proposal is then evaluated by the Subcommittee Secretariat, the relevant Working Group or by a rapporteur to ensure that its content conforms to the guidelines provided by the relevant International Standard.

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The steps in the registration process are described in terms of the responsibilities of the registration authority (see 5.2).

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4.7 Proposal guidelines and forms

Annex A specifies general information necessary to submit a proposal to the registration authority. Detailed information for a particular class may be obtained from the registration authority or from the relevant International Standard that specifies that class.

Annex B contains example class and registration proposals formatted in forms with supporting text.

Annex C provides guidelines for submitting proposals for language bindings for registered items.

Annex D provides guidelines for submitting proposals for encodings of registered items.

4.8 New or revised International Standards

International Standards that allow registration as specified by this International Standard shall expressly identify classes of items to be included in the register. Upon approval of the new or revised International Standard, the Secretary shall receive from the editor of the relevant International Standard a list of the new classes that are identified for inclusion in the register accompanied by the associated standardized items approved for inclusion in the register. In addition, the editor shall provide a list of deprecated items, if any. The Secretary shall then provide the lists to the registration authority. When a standard is published, the contents of the lists provided to the registration authority shall be automatically added to the register.

The registration authority shall also update the register to include relationships of existing classes to additional standards or parts of standards that use the classes within the scope of this International Standard, as necessary.

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5 International Register of Items

5.1 Availability of the International Register of Items

The contents of the International Register of Items shall be available to the public under the terms and conditions set forth by the registration authority. The contents of the register may also be obtained by standards developers at no charge under the terms and conditions set forth by the registration authority.

5.2 Responsibilities of the registration authority

The responsibilities of the registration authority are specified below and depicted in Figure 1:

a) to receive proposals for registration of items or proposals for modification, clarification, or deprecation of registered items from sponsoring authorities (see 4.3);

b) to perform an initial review to ensure consistent and correct proposal content. Criteria for not further processing a proposal include:

   1) incomplete or incomprehensible definition of item(s),

   2) incorrect or incomplete language binding or data encoding (see Annex C and Annex D),

   3) existence of an identical item in the register,

   4) item class not in the register, and/or

   5) inadequate justification;

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c) to attempt to correct deficiencies in a proposal through communication with the sponsoring authority;

d) to assign a tracking identifier to each proposal;

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e) to refer proposals to the appropriate approval body to ascertain whether each proposal should be approved, approved with changes, or rejected. The approval body shall attempt to resolve objections raised by negative votes when the proposal has received sufficient votes for approval.

f) to communicate with the sponsoring authority in order to mediate questions and/or concerns raised during step e);

g) to assign a register identifier to each approved item and otherwise update the register to reflect the results of the ballot. The register identifier shall be assigned as specified by the relevant International Standard.

h) to announce to all notification recipients that the proposals have been approved or rejected;

i) to inform the appropriate sponsoring authority of the results when processing of a proposal has been completed;

j) to include standardized items as directed by the International Standard that has created the associated class(es);

k) to provide a means of distinguishing between standardized items and registered items;

l) to provide a means of distinguishing between deprecated and non-deprecated items;

m) to redesignate registered items as standardized items as determined by the relevant International Standard;

n) to add new classes of items to the current list of classes; and

o) to provide copies of the register contents and/or associated documents (including a list of classes) to the public on request.

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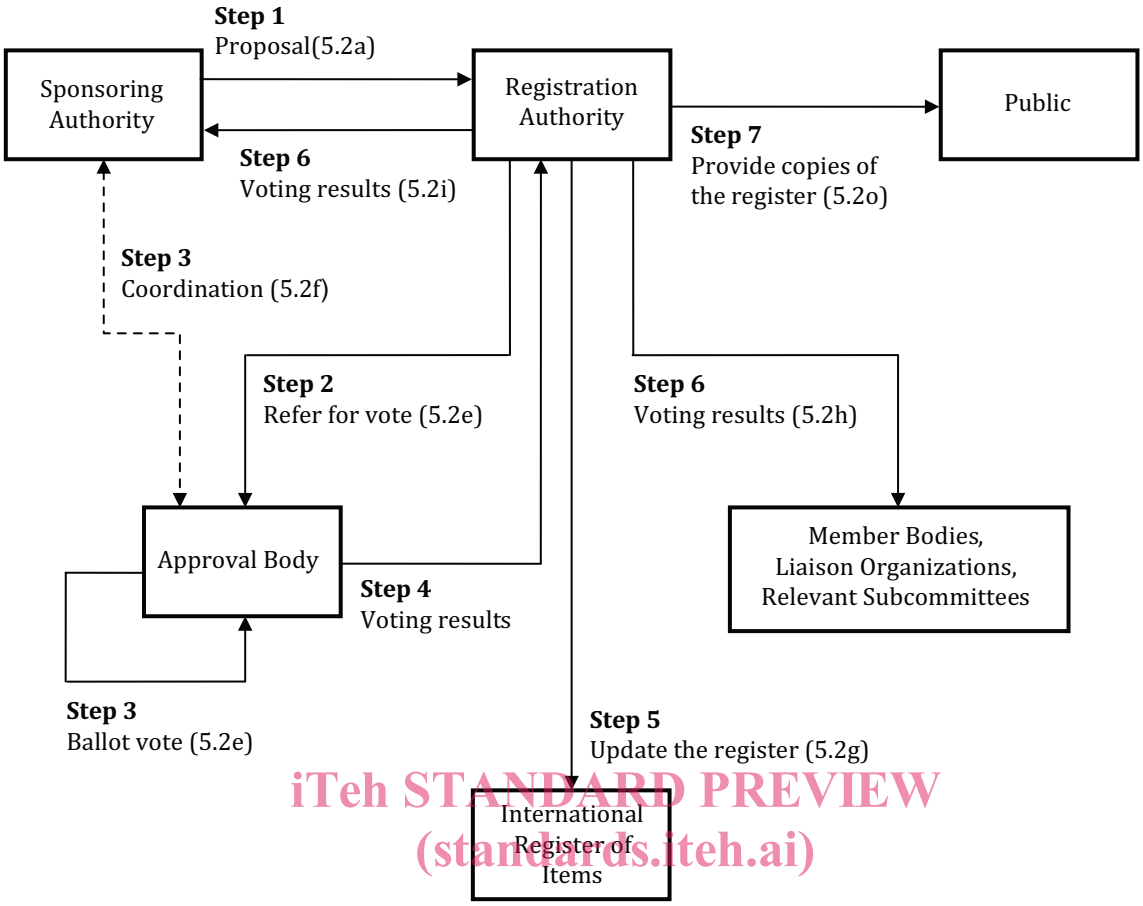

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Figure 1 — Registration steps

Step 1: A sponsoring authority submits a proposal for the registration, modification, clarification, or deprecation of item(s) to the registration authority after ensuring the proposal content is complete.

Step 2: After ensuring, in conjunction with the sponsoring authority, that the proposal has been correctly and completely prepared, the registration authority forwards this proposal to the appropriate approval body secretariat for member body vote.

Step 3: The appropriate approval body evaluates the proposal according to its procedures (including coordination with the sponsoring authority to affect any changes) after which the approval body secretary conducts a ballot vote.

Step 4: The appropriate approval body processes the results of the ballot and determines if the proposal is approved or rejected, after which the results are reported to the registration authority.

Step 5: The register is updated as needed to reflect the results of the ballot.

Step 6: The registration authority announces the results of the votes to the appropriate member bodies, sponsoring authority, and liaison organizations.

Step 7: Copies of the updated register are made available to the public according to the terms and conditions defined by the registration authority.

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