
**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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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 second edition cancels and replaces the first edition (ISO/IEC 9973:1994), which has been technically revised.

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Introduction

This International Standard provides a set of procedures for the registration of items. In this context, items refers to all registered items defined within the standards developed by ISO/IEC JTC 1/SC 24. ISO/IEC JTC 1/SC 24 is responsible for preparing standards for interchange of information involving *computer graphics, image processing and environmental data representation*.

All proposed and anticipated standards in this area share certain classes of items that are allowed to vary across implementations of the standard. Nevertheless, there is a strong incentive for implementations using the same registered items to reference them in the same way. Each standard developed by ISO/IEC JTC 1/SC 24, therefore, has the potential to provide for registration of certain items. Standards shall expressly identify items to be registered. When a standard is published, those categories of items identified for registration are automatically included in the registry.

This International Standard specifies procedures to be followed in preparing and maintaining the ISO/IEC International Register of Items, containing the identifiers and associated information assigned to particular items. The purpose of the register is to inform all concerned of items already registered and of the specific identifiers assigned to them. The register includes current classes of registered items for relevant International Standards developed by ISO/IEC JTC 1/SC 24. The classes of registered items are listed with the registry and therefore maintained separately from this International Standard. This International Standard will be updated as necessary for future standards developed by ISO/IEC JTC 1/SC 24.

Publication of the register promotes international information exchange and avoids duplication of effort in development of application-oriented items. Registration provides identification for an item but should not be regarded as a standardization procedure. However, as a matter apart from registration, the registered items may, but need not, be the subject of an international, national, or other standard. In these cases, the register shall reference the applicable standard. When such a standard is amended subsequent to registration of an item(s), it would be appropriate for the registered identifier of the item(s) to be indicated in that standard.

Annex A identifies the information needed for registration proposals. Annex B contains example proposal and register forms. Annex C contains language binding guidelines for registry submission. Annex D contains encoding guidelines for registry submission.

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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 a register of identifiers and meanings for standards under the direction of ISO/IEC JTC 1/SC 24.

NOTE These procedures may be used to extend any standard developed by ISO/IEC JTC 1/SC 24. Some registration items are graphical in nature; other registration items define data structures used by the ISO/IEC JTC 1/SC 24 standards. All registered items are intended for reuse within other adjunct standards.

Registration procedures do not assign values of identifiers that are defined as being workstation-dependent by specific graphics standards. The register of font appearance in the ISO/IEC JTC 1/SC 24 register for graphical items is not intended to address the broader issues of general-purpose font registration. The procedures apply to registration of individual items within classes as reserved for registration in the International Standards developed by ISO/IEC JTC 1/SC 24.

2 Normative references

[ISO/IEC 9973:2006](https://standards.iteh.ai/catalog/standards/sist/9243ad57-00d2-44de-b55d-124000000000/iso-iec-9973-2006)

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This standard requires no normative references.

3 Terms and definitions

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

3.1

clarification

non-substantive change to a registered item

NOTE A non-substantive change does not change the semantics or technical meaning of the item. Clarification does not result in a change to the registration status of the registered item.

3.2

class

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

EXAMPLE This International Standard has classes of registered items that are applicable to computer graphics, environmental data representation and/or implementation profiles of International Standards.

NOTE Class is used in this context to refer to a set of instances, not the concept abstracted from that set of instances [adapted from ISO 19135].

3.3

deprecated item

registered items which have been found obsolete or to which an objection or desire to cause the removal of has been raised

NOTE Deprecated items will be retained in the register, but marked as “deprecated” to note the recommendation of avoiding the use of this registered item.

3.4

Generalized Drawing Primitive

GDP

primitive required for graphical item registration

3.5

notification recipients

all member bodies, Category A, B and C liaisons, including sponsoring authorities

3.6

register

set of files containing identifiers assigned to items with descriptions of the associated items as defined by the relevant International Standard

[ISO 19135]

3.7

registration

assignment of a permanent, unique and unambiguous identifier to an item with its related descriptive information

3.8

registration authority

organization to which management of a **register** has been designated by ISO Technical Management Board at the proposal of the technical committee concerned

3.9

registry

information system on which a **register** is maintained

[adapted from ISO/IEC 11179-3]

4 The registration authority

4.1 Appointment of a registration authority

A qualified and internationally acceptable body concerned with computer elements developed under the scope of ISO/IEC JTC 1/SC 24 is recommended by ISO/IEC JTC 1/SC 24 to ISO/IEC for acceptance by Council to act as the registration authority for the purposes of this International Standard. The registration authority for ISO/IEC 9973 is established in agreement with ISO and is approved by the ISO Technical Management Board as part of a ten-year agreement to maintain the registry. Contact information for Registration Authorities of International Standards including this one are maintained and available at www.iso.org/iso/en/prods-services/catalogue/maralist.html

4.2 Responsibilities of registration authority

The Registration Authority shall maintain a register of identifiers and meanings assigned to items in the register. Upon request, the registration authority shall distribute an information pack containing a description of the register and how to submit proposals. The responsibilities of the registration authority are more completely described in Clause 5 and Figures 1 and 2.

5 Register of items

5.1 Availability of registers

The contents of any registers established under the procedures of this International Standard shall be available to the public under the terms and conditions set by the registration authority. Portions of the register may be obtained by standards developers at no charge under the terms and conditions set by the registration authority.

5.2 Initial assignments and additions

The establishment of a register under the procedures of this International Standard allows for multiple categories of items including:

- identifiers and meanings assigned to graphical items;
- profiles of International Standards, and
- environmental data representation items.

With regard to initial assignment of identifiers and meanings to registered items and subsequent additions to the register, the responsibilities of the registration authority are specified below and depicted in Figure 1:

- a) to receive proposals from sponsoring authorities (see Clause 6);
- b) to ascertain, by referring proposals to the Secretariat of ISO/IEC JTC 1/SC 24 or by a vote within the subcommittee, whether each proposal should be accepted, accepted subject to amendment, or rejected according to stated criteria. Criteria for rejecting a proposal include:
 - 1) incomplete or incomprehensible definition of item(s);
 - 2) incorrect or incomplete language binding or data encoding (reference Annex D Language binding guidelines);
 - 3) existence of an identical item in the register;
 - 4) item class not in register;
 - 5) not-applicable to any of the International Standards developed by ISO/IEC JTC 1/SC 24;
 - 6) inadequate justification for inclusion in the register.

Voting discrepancies shall be resolved following attempts to meet objections raised by negative votes.

- c) to assign a proposal identifier to each proposal,
- d) to assign a register identifier to each accepted item. The register identifier shall consist of a section name followed by a unique registration number within the section, which is:
 - 1) the value of identifier of the item, if this is a number or,
 - 2) some appropriate number assigned by the registration authority, if the value of identifier of item is not a number;
- e) to announce to all notification recipients of the items accepted for registration. This is accomplished by sending the table of contents and a cross-reference list matching the proposal identifier with the registered item;

- f) to inform the appropriate sponsoring authority of the results when processing of a proposal has been completed;
- g) to add new classes of items to the current list of classes;
- h) to provide copies of the register and associated documents to members of the public on request;
- i) to distribute the current list of classes of items upon request.

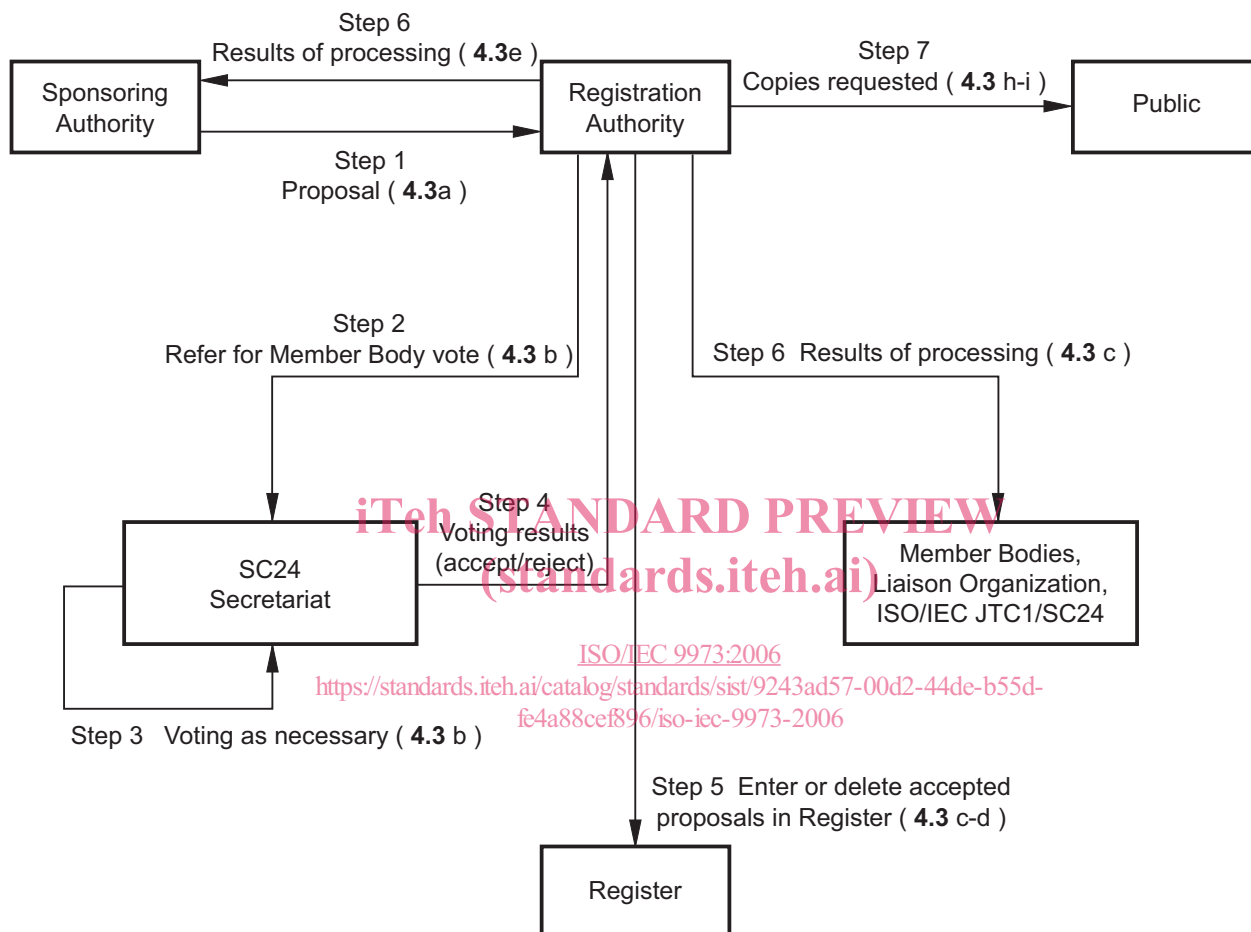


Figure 1 — Explanation of registration steps

Step 1 a sponsoring authority submits a proposal for item(s) to be registered to the registration authority after insuring it is complete

Step 2 - the registration authority forwards this proposal to the ISO/IEC JTC 1/SC 24 secretariat for member body vote

Step 3 - ISO/IEC JTC 1/SC 24 conducts a letter ballot vote

Step 4 - ISO/IEC JTC 1/SC 24 processes the results of the letter ballot and decides if the proposal is accepted or rejected

Step 5 - the register is updated to reflect the results of the letter ballot

Step 6 - the registration authority distributes the results of the votes to the member body, sponsoring authority, and the Liaison Organizations of ISO/IEC JTC 1/SC 24

Step 7 - copies of the register are available to the public according to the terms and conditions defined by the registration authority

5.3 Deprecations

No items shall be deleted from a register but shall be retained and marked as deprecated. A separate table of deprecated items shall be maintained for each class, which may be accessed by register users. Any comments that a sponsoring authority may desire to make concerning a proposed deprecation shall be directed to the Secretariat of ISO/IEC JTC 1/SC 24 for consideration. With regard to depreciations, the responsibilities of the registration authority shall be as follows:

- a) to receive proposals from the sponsoring authorities (see Clause 6);
- b) to inform the sponsoring authority that originally submitted the item for registration of the proposed deprecation, both in items identified for automatic registration as identified from a new standard and for those items submitted post-publication to the registration authority;
- c) to ascertain whether each proposal should be accepted or rejected by referring proposals to the Secretariat of ISO/IEC JTC 1/SC 24 for a Member Body vote within the subcommittee;
- d) to continue to include the item in the register, identify its status as deprecated and the date of deprecation, and identify the item that replaces it, if any;
- e) to announce items marked as deprecated from the register to notification recipients;
- f) to inform the sponsoring authority identified in b) of the results when processing of a proposal has been completed.

5.4 Modifications

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5.4.1 Amendment of registered items

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Once a proposal for registration of a particular item has been accepted and distributed, no proposals for modification of that item shall be considered. However, proposals for additional language bindings and encodings may be submitted for inclusion. These proposals are handled the same way as new proposals. Additional features of language binding or encoding shall be added to the existing registered items without change to the existing information.

5.4.2 Clarification of registered items

Sponsoring authorities may submit requests for clarifications on registered items. A clarification shall not cause any substantive change to a registered item. Otherwise it shall be treated as a new item. Approved clarifications shall be promulgated by the registration authority, and shall be treated as additional information attached to a registered item as a note. The registration authority at their discretion shall handle editorial clarifications.

5.5 Future standards

Standards shall expressly identify items to be registered. Upon approval of the new International Standard, the Secretary shall receive a list of the new classes that need to be identified for the register from the Standard Editor. The Secretary shall then provide to the registration authority this list of new classes as a mode of automating the incorporation of these classes. When a standard is published, those classes of items identified for registration shall be automatically included in the registry. The registration authority shall update the register to include relationships to additional standards or parts of standards developed by ISO/IEC JTC 1/SC 24.

5.6 Recipients of register activity notices

All Member Bodies, Liaisons bodies and ISO/IEC JTC 1/SC 24 are notification recipients and shall be provided notification of register activity in the forms of initiation, addition, and deprecation of registered items and identification of new classes.

5.7 Addition of classes

5.7.1 Automatic addition of classes

Standards shall define registry requirements and new classes of registered items within the International Standard text. From these descriptions, the Secretary shall notify the registration authority of class and registry requirements. The registration authority, upon receipt of notification is authorized to expand the list of classes. Such notification to the Secretary and the registration authority shall be made at the time of publication of the International Standard.

5.7.2 Manual addition of classes

The current set of classes is available for reference on the ISO/IEC 9973 registry server and is maintained by the registration authority. Additional classes may be manually added to the register according to Figure 2 below.

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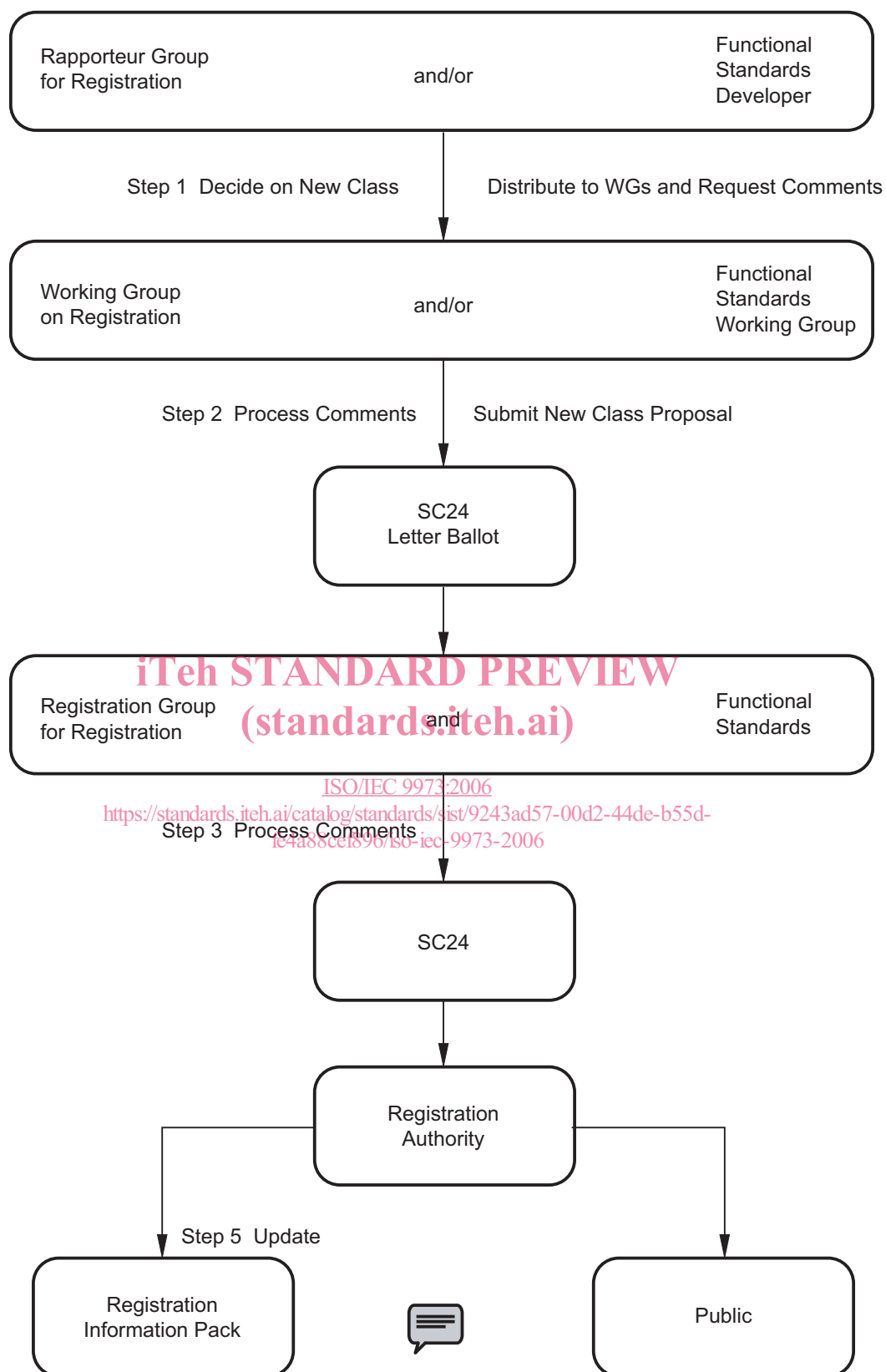


Figure 2 — Steps to Add as New Class