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**International Organization
for Standardization**

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ISO (ISO/IEC) collaboration with IEEE - the ISO/IEEE PSDO Agreement

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ISO and external organizations

ISO collaborates with over 600 international and broadly-based regional organizations

Most of the collaboration is via the traditional liaison mechanisms

In some cases, however, the collaboration is governed by special agreements (Memoranda of Understanding, Technical Cooperation Agreements etc.)

ISO and other international standardizing bodies

ISO, IEC and ITU consider themselves to be the apex organizations for international standardization

However, they also acknowledge that other bodies have a similar status in particular sectors/areas of specialization

Recognized standardizing bodies

Council resolution 42/1999 allows recognized bodies to submit their draft standards to ISO for adoption as DIS and published standards for adoption as FDIS (5 month vote).

- International Commission on Illumination
- International Institute of Welding
- International Union of Leather Technologists and Chemists' Societies
- World Meteorological Organization

US/SDO pilot projects

ASTM with TC 85: Food irradiation

ASME with TC 11: Boilers and pressure vessels

IEEE with TC 215: Some aspects of health informatics

HL7 with TC 215: Some aspects of health informatics

PSDO agreements

Recognition of the special expertise of particular SDOs

- Submission of standards for adoption by ISO (ISO/IEC)
- Joint working arrangements

IEEE PSDO agreement

Scope:

TC 204 *Intelligent transport systems*

TC 215 *Health informatics*

ISO/IEC JTC 1 SCs 6, 7, 22, 25, 31 and 36

IEEE PSDO agreement

Scope and procedures endorsed by the ISO Technical Management Board and IEC, agreement itself approved by the ISO Council

IEEE may now submit proposals directly to the ISO Secretary-General that particular IEEE standards be adopted by ISO

Relevant committee is consulted by its secretariat (30 day ballot) on 1) the need for an International Standard and 2) whether it is appropriate that the IEEE standard be submitted for 5 month FDIS ballot (cf IEC/IEEE agreement)

IEEE PSDO agreement - FDIS fast track

- An existing IEEE standard, within the scope of a JTC 1 subcommittee covered by the agreement, may be submitted as a Final Draft International Standard (FDIS)
- Request submitted to the Secretary-General of ISO for acceptance
- Secretary-General submits a proposal to the relevant JTC 1 subcommittee secretariat to initiate a 30-day ballot
 - Subcommittee decides, by simple majority vote on:
 - Need for an ISO/IEC/IEEE standard on the subject
 - Submission of the proposal for FDIS ballot
- Any JTC 1 subcommittee covered under this agreement may invite, by simple majority vote, the IEEE to offer a particular published standard for adoption
 - Agreement must be obtained from IEEE
 - 30-day ballot is waived

IEEE PSDO agreement – FDIS fast -track

If committee feels there is a need for a standard but FDIS fast-track is not appropriate, consultations to determine how best to proceed

Could be normal fast-track, joint work or IEEE may withdraw its proposal

IEEE PSDO agreement – FDIS fast track

- Upon acceptance by IEEE and the relevant JTC 1 subcommittee, the IEEE standard shall be circulated to the ISO/IEC national bodies for a five-month approval vote
 - Also allows for national public review and, where necessary, translation
- Requirements for acceptance are in accordance with the FDIS approval stage in the *ISO/IEC Directives, Procedures for the technical work of ISO/IEC JTC 1 on Information Technology (5th Edition)*

IEEE PSDO agreement – FDIS fast track

Aim is to produce a single publication serving as the ISO (ISO/IEC) standard and the IEEE standard.

Maintenance may be initiated either by ISO (ISO/IEC) or IEEE but normally will be carried out in a joint group

IEEE PSDO agreement

FDIS FT revision

- When a JTC 1/SC and IEEE Technical Committee agree to jointly revise the standard
- Maintenance Group (MG) is established
 - Consists of nominated experts from the relevant IEEE committee and JTC 1 subcommittee
 - JTC 1/SC and IEEE mutually agree on a Convener
 - Co-Conveners may be proposed

IEEE PSDO agreement – FDIS FT revision

- **MG prepares a draft revision for comment and reaches consensus**
 - The draft is circulated to the relevant ISO/IEC JTC1 Subcommittee for a Committee Draft (CD) vote
 - The draft is submitted to IEEE for sponsor ballot
- **MG prepares a compilation of comments received from both organizations**
 - Develops a revised draft
- **Once consensus within the MG is achieved**
 - Text is provided to the relevant ISO/IEC JTC1/SC secretariat for a four- month Final Committee Draft (FCD) vote
 - IEEE will recirculate the sponsor ballot, if needed

IEEE PSDO agreement - FDIS FT revision

- Once balloting is complete, MG prepares the document for:
 - Circulation by ITTF for a two-month FDIS vote
 - In parallel, IEEE submits the draft to the IEEE-SA Standards Board for approval
 - The original ISO/IEC/IEEE Standard is considered revised when
 - ISO/IEC achieve the requisite FDIS approval
 - IEEE-SA Standards Board has provided its requisite approval

IEEE PSDO agreement – IEEE revision

- Intent is to coordinate the initiation of revisions and to maintain one common ISO/IEC/IEEE standard on a given subject
- If IEEE initiates revision and the JTC 1/SC decides not to participate
 - ISO/IEC/IEEE Standard is not revised until IEEE has completed the revision
 - IEEE may submit the document to ISO as a potential new Standard for FDIS fast track approval to supersede the earlier ISO/IEC/IEEE Standard
 - If the revised document is not submitted by IEEE, or accepted by the relevant JTC 1/SC, the original ISO/IEC/IEEE Standard shall be withdrawn
 - Unless otherwise agreed by both organizations

IEEE PSDO agreement – JTC 1 revision

- If JTC 1/SC initiates revision and IEEE decides not to participate
 - JTC 1 may continue to revise the standard
 - Any material used from the original ISO/IEC/IEEE Standard will require a separate agreement with IEEE

IEEE PSDO agreement – Joint development

- Joint development may occur in:
 - Cases where IEEE is revising an existing standard
 - IEEE is proposing or developing a standard (yet unpublished)
 - Corresponds to a stated JTC 1 subcommittee need
 - Within the scope of a JTC 1/SC covered in this agreement
- The relevant JTC 1 subcommittee and IEEE committee may agree that it would be mutually beneficial to develop work jointly

IEEE PSDO agreement – Joint development

- IEEE may propose to the appropriate JTC 1 subcommittee to ‘jointly’ develop a new or existing standard
 - Proposal includes the original IEEE standard OR
 - Project title, scope, rationale for using this process, justification of the need for an ISO/IEC/IEEE Standard and identification of other bodies in liaison
- JTC 1 may initiate the joint development of a standard
 - JTC 1/SC secretariat shall contact the appropriate IEEE committee to discuss the project and see if there is mutual interest.

IEEE PSDO agreement – Joint development

- Both parties agree on joint development
 - JTC 1 member will submit a New Work Item Proposal to the JTC 1/SC for approval
 - The IEEE Technical Committee will submit a Project Authorization Request (PAR) to the IEEE-SA Standards Board
 - Provide relevant information for the project
 - Include a statement that the project is to be developed jointly with the relevant JTC 1 subcommittee
- Both organizations approve proposal
 - Joint Group (JG) of experts established
 - Convener mutually agreed upon by both organizations
 - Co-Conveners may be proposed
 - If the New Work Item is disapproved in ISO and/or the PAR is disapproved by the IEEE, the organization in which the proposal was approved may proceed to develop the standard independently of the other.

IEEE PSDO agreement – Joint development

JG develop text and achieve consensus

- Draft is circulated to the relevant ISO/IEC JTC1 Subcommittee for a three-month Committee Draft (CD) vote

- Draft is submitted to the IEEE for sponsor ballot

JG prepares a compilation of comments received from both organizations

- Develops a revised draft

- Draft is circulated by the relevant ISO/IEC JTC1 Subcommittee for a four-month Final Committee Draft (FCD) vote

- IEEE will recirculate the sponsor ballot, if needed

IEEE PSDO agreement – Joint development

Once balloting is complete, JG prepares the document for:

- Circulation by ITTF for a two-month FDIS vote

- In parallel, IEEE submits the draft to the IEEE-SA Standards Board for approval

The document is considered approved when

- ISO/IEC achieve the requisite FDIS approval

- IEEE-SA Standards Board has provided its requisite approval

IEEE PSDO agreement

Document is published as a joint ISO/IEC/IEEE standard

Copyright is jointly held by ISO/IEC and IEEE

If, as a result of the balloting, the document is approved in only one of the organizations, ISO and IEEE shall decide whether it is possible to reconcile the differences. If reconciliation is not possible, each organization can proceed to develop the standard independently of each other. Each organization will retain the copyright of their individual documents.

IEEE PSDO agreement – Maintenance of jointly developed standards

Revisions can be proposed to the ISO/IEC/IEEE standard by the relevant IEEE or JTC 1 subcommittee having jurisdiction at any time by members of IEEE or the JTC 1/SC

Minor revisions (e.g., technical corrigenda) of an ISO/IEC/IEEE standard shall be jointly developed by the appropriate IEEE committee and by the JTC 1/SC in accordance with each organization's procedures

Major revisions (e.g., amendments, full revisions) of an ISO/IEC/IEEE standard shall be balloted in accordance with the procedures for joint development

Systematic review

Performed in accordance with each organizations' procedures