

IEEE Standards Association

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IEEE Today

- World's largest technical professional society
 - Over **376 000** members
 - Live and work in over 160 countries
 - Grouped into geographic and technical areas reflecting where members live and work
 - Holds more than **500** international conferences annually
 - Publishes over 30% of the world's literature in its fields
 - More than 1.7 million documents in the IEEE/IET Electronic Library
 - Offers more than **900** active industry standards
 - Nearly 1,300 standards and projects under development
 - Fosters technical innovation in many areas
 - 38 societies and 6 technical councils representing the wide range of technical interests in the IEEE

IEEE-SA Mission

To enable and promote the collaborative application of technical knowledge to advance economic and social well-being

Core Values:

- Respect for consensus
- Due process
- Openness
- Global market relevance
- Technical integrity and excellence
- Collaboration and community building

IEEE-SA's Global Approach



- Advance technology to benefit global society
 - High-quality, globally relevant standards are borderless
 - Cost-effective development
 - One standard, one test worldwide
- As a global SDO the IEEE-SA's policies must be globally relevant
 - Apply consistently worldwide
 - Ensure a fair and balanced environment for all participants
- Partnering with the international community
 - Create a standards development environment that brings together all constituents
 - Deliver economically relevant global standards to the international community

IEEE International Collaboration

- International Electrotechnical Commission (IEC)
 - A portion of existing IEC library built on IEEE standards
 - Agreements in place to:
 - Fully adopt IEEE standards as IEC standards
 - Enable Joint Development work between IEEE and IEC committees
- International Organization for Standardization (ISO)
 - Partner Standards Development Organization (PSDO) Agreement in place for rapid adoption and joint development
- ISO/IEC Joint Technical Committee 1 (JTC1)
 - 25+ years of adoption of IEEE network, operating systems, microprocessor, and software engineering standards
- International Telecommunications Union (ITU)
 - International sector membership in all three ITU sectors – Telecommunications, Radiocommunications, Development

IEEE-SA & National Standards Bodies Agreements

- Provides for the adoption of IEEE standards as National Body Standards, **or**
- Identifies mechanisms for collaborative work and cooperation between organizations
 - Canadian Standards Association (CSA)
 - Standards Institute of Israel (SII)
 - South Africa Standards Bureau (SABS)
 - Korean Electrical Association (KEA)

Bridging the Standardization Gap

- IEEE is a rich source of technical information for standards developers.
 - Reciprocal agreement with ITU allows ITU members access to the IEEE Library of periodicals, transactions, journals, standards
- IEEE-SA Policies enable participation in IEEE working groups and consensus ballots by **all** interested parties
- On-line balloting encourages global participation

Bridging the Standardization Gap

■ Seminars on IEEE Standards Association

- Germany
- China
- Tunisia
- Japan



■ Outreach to National Organizations in

- Brazil
- Japan
- Canada
- Korea
- China

Bridging the Standardization Gap

- Access to select IEEE standards at no charge:
 - Get IEEE 802® - *IEEE Local and Metropolitan Area Network (802) standards*
 - Get IEEE/ANSI N42™ - *Radiation Detection Standards*

- Education on standards
 - Online Standards-related tutorials (no charge)
 - Case studies
 - Grants for students projects based on standards
 - IEEE Expert Now on-line courses in various technologies areas (including standards)

Summary

- IEEE develops globally relevant standards
- IEEE has developed standards for 115+ years
 - IEEE catalog of standards contains long-established engineering practices and leading-edge technologies that drive the marketplace
- IEEE has three venues for complementary joint development and collaboration
 - Individual-consensus standards
 - Entity-consensus standards
 - Consortia specifications and support
- IEEE has a leading contemporary intellectual property policy

