

STANDARDS DEVELOPMENT

Globally Open Consensus-Driven Standards Development

BENEFITS OF THE IEEE STANDARDS PROCESS



Collaboration breeds innovation.

At IEEE SA, a healthy underlying ecosystem of interoperability allows standards participants to innovate where it matters the most to them, while keeping the potential audience for innovation as large as possible. By bringing a wider range of players and viewpoints into the development cycle, more participants are able to get their innovations in the mix so they can be capitalized on by all. Technologies that were once top-down now advance from all directions.



Markets move faster.

Standards developers, adapters, and implementers benefit from development of new products faster, advancing product development times while pushing innovations at a rapid pace. Key learning is available to everyone, creating new products faster and advancing the entire field.



The world adapts—and adopts—more quickly.

Technologies that were once limited by nation or region become truly global. A democratic, open and market-driven standards process takes innovation from anywhere—and shares it everywhere.

HOW DOES THE IEEE SA STANDARDS PROCESS WORK?

A proven and effective formal process.

The IEEE SA process for standards development follows widely-accepted principles that promote cooperation, consensus, objectivity, global participation, collective empowerment, and respect for the final results industry-wide.

The IEEE SA process promotes technology incubation leading up to standards development and continues in helping the market adopt and build on standards. In the end, the innovations from a standard feed back into the next round of innovation and standards development.

HOW TO PARTICIPATE IN IEEE STANDARDS DEVELOPMENT THROUGH IEEE SA

Work on standards is going on at all times in many areas through IEEE SA.

The IEEE SA website and other publications keep companies aware of work in their field and working groups are always open to new participants, from business to academic research. Membership in IEEE SA is open to industry participants, individuals, and researchers from organizations of all sizes. Contact the Working Group Chair on a specific standard or representatives at IEEE SA for further assistance.



Stages in the IEEE Standards Process

Working with a framework of open participation and diversity, IEEE's unique, borderless standardization paradigm espouses competition and at the same time collaboration among a wide variety of stakeholders to create standards that drive innovation and national and global growth.



1. IDEATION

A diverse group of expert individuals or organizations sees a need for a standard—e.g., to grow the market, ensure interoperability, spread adoption of a promising technology—and comes together to develop it.

2. PROPOSAL

The group submits a proposal for a standard. If approved, the project moves forward and a Working Group is formed.



4. VOTING

A diverse group of individuals or entities with an interest in the standard votes to approve/disapprove the draft standard. Broad consensus must be obtained. If approved, the IEEE Standards Board votes on it.



3. DRAFTING

The Working Group makes agreements and compromises to create the standard with its technical specifications, often using existing technology/documentation contributed by one or more members of the group.



5. PUBLICATION and MAINTENANCE

Once the standard is approved, it is available for use around the world. Updates are made as needed during the lifetime of the standard.

Standards Development Principles: Direct participation | Due process | Broad consensus | Balance | Transparency | Broad openness