IEEE SA STANDARDS ASSOCIATION

IEEE SA Standards Board (SASB) Meeting Minutes
16 June 2022
8:00 a.m. – 4:00 p.m. ET (UTC-4)
Toronto, Canada and Teleconference/Webex

Attendees

Chair:
David Law

Vice Chair:
Ted Burse

Past Chair:
Gary Hoffman

Secretary:
Konstantinos Karachalios

Members:
Edward Addy [TAB Rep.]
Travis Griffith
Guido Hiertz
Yousef Kimiagar
Thomas Koshy
John Kulick
Johnny Lin
Kevin Lu
Daleep Mohla
Damir Novosel
Annette Reilly
Robby Robson
Jon Rosdahl
Mark Siira
Dorothy Stanley
Lei Wang
Keith Waters
Karl Weber
Sha Wei
Philip Winston

Members Absent:
Ramy Fathy
Andrew Myles
Daidi Zhong

Joe Koepfinger, Member Emeritus

IEEE Staff:
Christy Bahn
Adrien Bastos
Jesse Benjamin
Madhu Bibikar
Kim Breitfelder
Matthew Ceglia
Sri Chandrasekaran
Rob Craig
Karen Evangelista
Jonathan Goldberg
Lloyd Green
Jodi Haasz
Yvette Ho Sang
Ron Hotchkiss
Soo Kim
Michael Kipness
Vanessa Lalitte
Kelly Lorne
Jiajia Liu
Karen McCabe
Ern Morales
Karen Mulberry
Adam Newman
Mary Lynne Nielsen
Tania Olabi-Colon
Christian Orlando
Maria Palombini
Moira Patterson
Purva Rajkotia
Dave Ringle, Recording Secretary
Ana Sainvilus-Cantrell
Jennifer Santulli
Rudi Schubert

Tom Thompson
Lisa Weisser
Malia Zaman
Meng Zhao

IEEE Outside Legal Counsel:
Chris Renner – Jenner & Block LLP
Claire Topp – Dorsey & Whitney LLP

Guests:
Sandeep Agrawal
Michael Atlass
Edward Au
Cheng-Jen Chen
Xiaofeng Chen
Doug Edwards
Latonia Gordon
Victor Huang
Tyler Jaynes
George Kasangaki
Sengmeng Koo
Joseph Levy
Howard Li
Hung Ling
Xiaohui Liu
Haiying Lu
Jim Matthews
Paul Nikolich
Glenn Parsons
Matteo Sabattini
Robert Stacey
Mehmet Ulema
Zuno Verghese
Don Wright
Yu Yuan

[NOTE: Some presentations are available to SASB Members in the IEEE SA Standards Board document repository, in the Files & Discussions area, in the June 2022 folder.]

1   Call to Order

Acting Chair Ted Burse called the meeting to order at 8:03 a.m. ET (UTC-4).

2   Introductions

There was a round of introductions by all present. It was noted that the meeting was quorate.

3   Agenda

3.1   Approval of [Agenda](#)

There was a motion to approve the agenda. In the absence of objection, the motion was approved by unanimous consent.

3.2   Consent Agenda

3.2.1   Approval of 24-25 March 2022 SASB Meeting [Minutes](#)

3.2.2   AudCom Recommendations

Standards Committee P&Ps

   Accepted (*standards work authorized*):

   - C/TT   Computer Society/Test Technology Standards Committee

   - MS/MagSoc-SC   Magnetics Society/Magnetics Society Standards Committee

New Standards Committee Recognition with Accepted P&Ps

Motion: Recommend that the SASB recognize the Magnetics Society/Magnetics Society Standards Committee, to be abbreviated as MS/MagSoc-SC, as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

3.2.3   NesCom Recommendations

Withdrawal Requests:

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

P2799
Standard for Confirming and Conveying Identity Over the Internet
Recommendation: Approve PAR withdrawal

Modified PARs:

IEEE Power and Energy Society/Insulated Conductors

P2789
Guide for the Selection and Application of Cables Used in Enclosed Transit Infrastructure
Recommendation: Approve modified PAR

IEEE Reliability Society/IEEE Reliability

P3106
Standard for Telecommunication System Reliability Indices
Recommendation: Approve modified PAR

Extension Requests:

IEEE Computer Society/Learning Technology

P9274.1.1
JavaScript Object Notation (JSON) Data Model Format and Representational State Transfer (RESTful) Web Service for Learner Experience Data Tracking and Access
Recommendation: Approve request for an extension until December 2023

IEEE Computer Society/Standards Activities Board

P1599
Recommended Practice for the Definition of a Multilayer Representation of Music Using eXtensible Markup Language (XML)
Recommendation: Approve request for an extension until December 2024

P2796

Standard for Framework for the Internet of Food (IoF)
Recommendation: Approve request for an extension until December 2024

P2796.1
Standard for Data Requirements for Internet of Food (IoF) Systems
Recommendation: Approve request for an extension until December 2024

P2796.2
Standard for Data Exchange Architecture and Interface Requirements for Internet of Food (IoF) Systems
Recommendation: Approve request for an extension until December 2024

IEEE Computer Society/Test Technology

P1687.2
Standard for Describing Analog Test Access and Control
Recommendation: Approve request for an extension until December 2024

P2427
Standard for Analog Defect Modeling and Coverage
Recommendation: Approve request for an extension until December 2023

IEEE Engineering in Medicine and Biology Society/Standards Committee

P2795
Standard for Shared Analytics across Secure and Unsecured Networks
Recommendation: Approve request for an extension until December 2025

IEEE Power and Energy Society/Insulated Conductors

P2789
Guide for the Selection and Application of Cables Used in Transit Infrastructure
Recommendation: Approve request for an extension until December 2025

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P1815
Standard for Electric Power Systems Communications-Distributed Network Protocol (DNP3)

Recommendation: Approve request for an extension until December 2025

PC37.118.2
Standard for Synchrophasor Data Transfer for Power Systems
Recommendation: Approve request for an extension until December 2023

IEEE Power and Energy Society/Transformers

PC57.168
Guide for Low Frequency Dielectric Testing for Distribution, Power, and Regulating Transformers
Recommendation: Approve request for an extension until December 2023

New PARs:

IEEE Communications Society/Access and Core Networks Standards Committee

P1942.1
Standard for Massive Multiple Input Multiple Output (MIMO) Architectural Framework
Recommendation: Approve new PAR until December 2026

IEEE Communications Society/Virtualized and Software Defined Networks, and Services Standards Committee

P1943
Standard for Post-Quantum Network Security
Recommendation: Approve new PAR until December 2026

IEEE Computer Society/Artificial Intelligence Standards Committee

P3181
Standard for Trusted Environment Based Cryptographic Computing
Recommendation: Approve new PAR until December 2026

P3187
Guide for Framework for Trustworthy Federated Machine Learning
Recommendation: Approve new PAR until December 2026

IEEE Computer Society/Blockchain and Distributed Ledgers

P3224

Standard for Blockchain-based Green Power Identification Application
Recommendation: Approve new PAR until December 2026

P3225

Standard for Using Blockchain in Low Carbon Zones Evaluation
Recommendation: Approve new PAR until December 2026

P3226

Standard for Trusted Data Circulation Based on Blockchain and Distributed Ledger Technologies (DLT)
Recommendation: Approve new PAR until December 2026

IEEE Computer Society/Data Compression Standards Committee

P2941.2

Standard for Application Programming Interface (API) of Deep Learning Inference Engine
Recommendation: Approve new PAR until December 2026

P3184

Standard for Data Framework for Autonomous Driving
Recommendation: Approve new PAR until December 2026

IEEE Computer Society/Design Automation

P3164

Standard for Security Annotation for Electronic Design Integration
Recommendation: Approve new PAR until December 2026

IEEE Computer Society/Smart Manufacturing Standards Committee

P3179

Recommended Practice for Digital Mine Construction
Recommendation: Approve new PAR until December 2026

P3180

Guide for Mould Management Based on Internet of Things and Cloud Computing
Recommendation: Approve new PAR until December 2026

IEEE Engineering in Medicine and Biology Society/Standards Committee

P3173
Standard for Endocrine Disrupting Chemical Hazard Labelling
Recommendation: Approve new PAR until December 2026

IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee

P2805.4
Standard for Edge Collaboration Protocols for Federated Learning
Recommendation: Approve new PAR until December 2026

P3178
Standard for General Requirements and Protocols for Software-Defined Physical Layer of Wireless Backscatter Networks
Recommendation: Approve new PAR until December 2026

IEEE Photonics Society/Standards Committee

P3186
Standard for a Port Interface Representing Photonic Signals Using Simulation Program with Integrated Circuit Emphasis (SPICE)-Class Circuit Simulators
Recommendation: Approve new PAR until December 2026

IEEE Robotics and Automation Society/Standing Committee for Standards

P3177
Standard for a Modular Framework for a Robotically Assisted Surgical System
Recommendation: Approve new PAR until December 2026

IEEE Vehicular Technology Society/High Speed Train and Maglev Standards Committee

P3143
Standard for Electrical Transmission System for Short Stator Magnetic Levitation Vehicle
Recommendation: Approve new PAR until December 2026

IEEE Vehicular Technology Society/Traction Power Systems Standards Committee

P3175
Guide for Stray Current Corrosion Mitigation for Direct Current (DC) Rail Transit Systems
Recommendation: Approve new PAR until December 2026

PARs for the Revision of Standards:

IEEE Computer Society/Standards Activities Board

P1680.2
Standard for Environmental Assessment of Imaging Equipment
Recommendation: Approve PAR for the revision of a standard until December 2026

P1680.3
Standard for Environmental Assessment of Televisions
Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Computer Society/Test Technology

P1149.1
Standard for Test Access Port and Boundary-Scan Architecture
Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Industry Applications Society/Industrial & Commercial Power Systems Standards Development Committee

P3004.1
Recommended Practice for the Application of Instrument Transformers in Industrial and Commercial Power Systems
Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P1692

Guide for the Protection of Communication Installations from Lightning Effects
Recommendation: Approve PAR for the revision of a standard until December 2026

PC93.4

Standard for Power Line Carrier Line-Tuning Equipment (30 kHz to 500 kHz) Associated with Power Transmission Lines
Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Power and Energy Society/Surge Protective Devices/High Voltage

PC62.92.6

Guide for Application of Neutral Grounding in Electrical Utility Systems, Part VI – Systems Supplied by Current-Regulated Sources
Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Power and Energy Society/Transformers

PC57.12.59

Guide for Dry-Type Transformer Through-Fault Current Duration
Recommendation: Approve PAR for the revision of a standard until December 2026

PC57.135

Guide for the Application, Specification, and Testing of Phase-Shifting Transformers
Recommendation: Approve PAR for the revision of a standard until December 2026

PC57.138

Recommended Practice for Routine Impulse Tests for Distribution Transformers
Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Vehicular Technology Society/Rail Transportation Standards Committee

P1482.1
Standard for Rail Transit Vehicle Event Recorders
Recommendation: Approve PAR for the revision of a standard until
December 2026

Standards Committee Changes:

Current Standards Committee for the following Standard: VT/RTSC;
New Standards Committee: VT/TPSSC

IEEE Std 2657-2021 'Guide on Energy Feedback Systems for DC
Traction Power Supply System'

Current Standards Committee for the following PAR: VT/RTSC;
New Standards Committee: VT/ITS

P1482.1 'Standard for Rail Transit Vehicle Event Recorders'

3.2.4   RevCom Recommendations

New:

**IEEE Communications Society/Dynamic Spectrum Access Networks
Standards Committee**

P1900.6b/Draft 6
IEEE Draft Standard for Spectrum Sensing Interfaces and Data Structures
for Dynamic Spectrum Access and Other Advanced Radio Communication
Systems Amendment 2: Spectrum Database Interfaces
Recommendation: APPROVE

**IEEE Communications Society/Virtualized and Software Defined
Networks, and Services Standards Committee**

P1930.1/Draft 2
IEEE Draft Recommended Practice for Software Defined Networking (SDN)
Based Middleware for Control and Management of Wireless Networks
Recommendation: APPROVE

IEEE Computer Society/Artificial Intelligence Standards Committee

P2937/Draft 6

IEEE Draft Standard for Performance Benchmarking for AI Server Systems
Recommendation: APPROVE

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

P2883/Draft 18
IEEE Draft Standard for Sanitizing Storage
Recommendation: APPROVE

IEEE Computer Society/LAN/MAN Standards Committee

P802.3dd/Draft 3.1
IEEE Draft Standard for Ethernet Amendment: Maintenance #17: Power over Data Lines of Single Pair Ethernet
Recommendation: APPROVE

IEEE Computer Society/Smart Manufacturing Standards Committee

P2671/Draft 2
IEEE Draft Standard for General Requirements of Online Detection Based on Machine Vision in Intelligent Manufacturing
Recommendation: APPROVE

P2934/Draft 2
IEEE Draft Standard for Logistics Operation Process in a Smart Factory
Recommendation: APPROVE

IEEE Consumer Technology Society/Blockchain Standards Committee

P2146.1/Draft 3.1
IEEE Draft Standard for Entity-Based Risk Mutual Assistance Model through Blockchain Technology
Recommendation: APPROVE

IEEE Instrumentation and Measurement Society/TC9 – Sensor Technology

P1588b/Draft 1.1

IEEE Draft Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems – Amendment: Addition of Precision Time Protocol (PTP) mapping for transport over Optical Transport Network (OTN)
Recommendation: APPROVE

IEEE Microwave Theory and Techniques Society/Standards Coordinating Committee

P1765/Draft 3
IEEE Draft Recommended Practice for Estimating the Uncertainty in Error Vector Magnitude of Measured Digitally Modulated Signals for Wireless Communications
Recommendation: APPROVE

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P1595/Draft 7
IEEE Draft Standard for Testing and Performance for Optical Phase Conductor (OPPC) for Use on Electrical Utility Power Lines
Recommendation: APPROVE

IEEE-SASB Coordinating Committees/SCC21 – Fuel Cells, Photovoltaics, Dispersed Generation, and Energy Storage

P1547.9/Draft 5.6
IEEE Draft Guide to Using IEEE Standard 1547 for Interconnection of Energy Storage Distributed Energy Resources with Electric Power Systems
Recommendation: APPROVE

Revision:

IEEE Computer Society/Simulation Interoperability Stds Organization/Stds Activity Committee

P1730/Draft 2
IEEE Draft Recommended Practice for Distributed Simulation Engineering and Execution Process (DSEEP)
Recommendation: APPROVE

IEEE Computer Society/Test Technology

P1149.7/Draft 8
IEEE Draft Standard for Reduced-Pin and Enhanced-Functionality Test Access Port and Boundary-Scan Architecture
Recommendation: APPROVE

P1500/Draft 1.5
IEEE Draft Standard Testability Method for Embedded Core-Based Integrated Circuits
Recommendation: APPROVE

IEEE Power and Energy Society/Electric Machinery

P1799/Draft 21
IEEE Draft Recommended Practice for Quality Control Testing of External Discharges on Stator Coils, Bars, and Windings
Recommendation: APPROVE

IEEE Power and Energy Society/Power System Relaying and Control

PC37.106/Draft 11.0
IEEE Draft Guide for Abnormal Frequency Protection for Power Generating Plants
Recommendation: APPROVE

IEEE Power and Energy Society/Transformers

PC57.154/Draft 8
IEEE Draft Standard for Liquid-Immersed Transformers Designed to Operate at Temperatures above Conventional Limits Using High-Temperature Insulation Systems.
Recommendation: APPROVE

IEEE Power and Energy Society/Transmission and Distribution

P1453/Draft 5.1
IEEE Draft Standard for Measurement and Limits of Voltage Fluctuations and Associated Light Analysis of fluctuating Loads on Power Systems
Recommendation: APPROVE

IEEE Ultrasonics, Ferroelectrics and Frequency Control Society/IEEE Ultrasonics, Ferroelectrics and Frequency Control

P1139/Draft 18
IEEE Draft Standard Definitions of Physical Quantities for Fundamental Frequency and Time Metrology – Random Instabilities
Recommendation: APPROVE

4 SASB Standing Committee Reports

4.1 Audit Committee (AudCom)

Kevin Lu, AudCom Chair, reported.

4.2 New Standards Committee (NesCom)

Dorothy Stanley, NesCom Chair, reported.

4.3 Patent Committee (PatCom)

John Kulick, PatCom Chair, reported.

4.4 Procedures Committee (ProCom)

Ted Burse, ProCom Chair, reported.

There was a motion (from ProCom) that the *IEEE SA Standards Board Operations Manual* changes noted below be approved. In the absence of objection, the motion was approved.

> **IEEE SA Standards Board Operations Manual**
>
> **7.2 Liaisons from organizations external to IEEE to Standards Committees/Subgroups**
>
> An organization external to IEEE may request to establish a liaison relationship from the organization external to IEEE to a Standards Committee/Subgroup as an information conduit and may provide information as part of the consensus building process.
>
> **7.2.1 Criteria for the establishment of a liaison**
>
> In order to establish a liaison relationship with a Standards Committee/Subgroup, the organization external to IEEE shall meet the following criteria:

a) Have technical competence or expertise in the field of technology represented by the Standards Committee/Subgroup with which the liaison relationship is established
b) Have a process for developing consensus on any input provided to the Standards Committee/Subgroup

7.2.2 Establishing a liaison with a Standards Committee

An organization external to IEEE may request to establish a liaison with a Standards Committee/Subgroup. The Standards Committee/Subgroup that receives the request shall determine whether to accept it and shall reply to the requesting organization.

Establishment of a liaison shall be communicated by the Standards Committee/Subgroup to the IEEE SA Program Manager.

7.2.3 Roles and responsibilities of a liaison coordinator

Liaison coordinators may attend and participate in Standards Committee/Subgroup meetings. If a meeting fee is being charged, the liaison coordinator is responsible for paying the fee.

While participating in IEEE standards development activities, all participants shall act in accordance with all applicable laws (nation-based and international), the IEEE Code of Conduct, the IEEE Code of Ethics, the *IEEE SA Standards Board Bylaws* (see *IEEE SA Standards Board Bylaws* subclause 5.2.1 on "Participation in IEEE standards development"), and the *IEEE SA Standards Board Operations Manual.*

Liaison coordinators cannot attain voting rights in the name of the organization external to IEEE.

7.2.4 Technical contributions

If a liaison organization external to IEEE makes a technical Contribution to an IEEE draft standard, the liaison organization thereby agrees to comply with IEEE SA's policies and procedures related to Contributions (e.g., the IEEE SA Copyright Policy, outlined in Clause 7 of the *IEEE SA Standards Board Bylaws* and subclause 6.1 of the *IEEE SA Standards Board Operations Manual*; the IEEE SA Patent Policy in regards to disclosure of potential essential patent holders, outlined in Clause 6 of the *IEEE SA Standards Board Bylaws* and subclause 6.3 of the *IEEE SA Standards Board Operations Manual*).

If a liaison organization submits one of its copyrighted documents to a Standards Committee/Subgroup for coordination, the document shall not be considered to be a Contribution and shall not be used in any IEEE document without prior permission from the organization external to IEEE. Prior to distributing the organization's document, the Standards Committee/Subgroup shall reference the Working Group Draft Sharing List to determine if guidance is required from the IEEE SA Program Manager.

7.3 Annual Review of liaison relationships

The Chair of the Standards Committee or the Chair of the Subgroup is responsible for reviewing the liaison relationship(s) annually with their respective group.

7.~~4~~2.5 Termination of liaisons

Liaisons may be terminated by the Standards Committee/Subgroup at their discretion for reasons including, but not limited to, the following:

a) All work is deemed to have been completed
b) The organization external to IEEE has not been compliant with the permission terms associated with an IEEE Standards draft provided to them
c) The relationship is determined to not be in the best interest of the Standards Committee/Subgroup, IEEE SA, or IEEE

4.5   Standards Review Committee (RevCom)

Travis Griffith, RevCom Chair, reported.

5   Old Business

None.

6   Informational Reports
6.1   CAG Report

Don Wright, SASB Liaison to the CAG, reported.

6.2   IEEE SA President's Report

Jim Matthews, IEEE SA President, reported.

6.3   IEEE SA Managing Director's Report

Konstantinos Karachalios, IEEE SA Managing Director, reported.

7   New Business

None.

8   [**Next Meeting**](#)

The next SASB meeting will be scheduled for 21-22 September 2022 and it will be a virtual-only meeting.

9   **SASB Resolutions**

The SASB recognized the Magnetics Society/Magnetics Society Standards Committee, to be abbreviated as MS/MagSoc-SC, as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

10   **Executive Session Items**
10.1   Outreach and Events Update

10.2   SASB Oversight Committee RE: a Specific Standards Committee

10.3   AES/GA P&P

11   **Adjournment**

There being no further business, the meeting was adjourned at 1:49 p.m. ET (UTC-4).