

**IEEE SA STANDARDS BOARD (SASB)
MEETING MINUTES
29 June 2023
Brussels, Belgium and Teleconference/Webex
9:00 a.m. – 5:00 p.m. CEST (UTC+2)**

Attendees

Chair:

David Law

Vice Chair:

Ted Burse

Past Chair:

Gary Hoffman

Secretary:

Konstantinos Karachalios

Members:

Sara Biyabani

Doug Edwards

Guido Hiertz

Yousef Kimiagar

Thomas Koshy

John Kulick

Joseph Levy

Howard Li

Johnny Lin

Xiaohui Liu

Kevin Lu

Daleep Mohla

Andrew Myles

Paul Nikolich [TAB Rep.]

Annette Reilly

Robby Robson

Lei Wang

Keith Waters

Karl Weber

Philip Winston
Don Wright

Members Absent:

Ramy Fathy
Gui Liu

Joe Koepfinger, Member Emeritus

IEEE Staff:

Christy Bahn
Adrien Bastos
Teresa Belmont
Jennifer Biolsi
Hermann Brand
Kim Breitfelder
Matthew Ceglia
Karen Evangelista
Josh Gay
Jonathan Goldberg
Lloyd Green
Jodi Haasz
Yvette Ho Sang
Ron Hotchkiss
Patrycja Jarosz
Soo Kim
Michael Kipness
Vanessa Lalitte
Juanita Lewis
Jijia Liu
Kelly Lorne
Karen McCabe
Suzanne Merten
Mary Lynne Nielsen
Christian Orlando
Moirra Patterson
Dave Ringle, Recording Secretary
Pat Roder
Jennifer Santulli
Tom Thompson
Ernesto Vega Janica
Malia Zaman

IEEE Outside Legal Counsel:

Michael Lindsay – Dorsey & Whitney LLP

Chris Renner – Jenner & Block LLP

Claire Topp – Dorsey & Whitney LLP

Guests:

Mila Aliana

Rolf de Vegt

Hui Ding

Jean-Philippe Faure

Latonia Gordon

Tyler Jaynes

Dina Kallay

Haiying Lu

Meng Lu

Jim Matthews

Gil Ohana

Glenn Parsons

Jon Rosdahl

Lachlan Scully

Mark Siira

Barry Tilton

Constance Weise

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 2023 folder.]

1 Call to Order

SASB Chair David Law called the meeting to order at 9:00 a.m. CEST (UTC+2).

2 Introductions

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

Chair Law welcomed the attending GEPS representatives to the meeting.

3 Agenda

3.1 Approval of [Agenda](#)

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

3.2 Consent Agenda

3.2.1 Approval of 30 March 2023 SASB Meeting [Minutes](#)

3.2.2 AudCom Recommendations

Standards Committee P&Ps

Accepted (standards work authorized):

C/KESC	Computer Society/Knowledge Engineering Standards Committee
CIS/SC	Computational Intelligence Society/ Standards Committee
COM/EdgeCloud-SC	Communications Society/Edge, Fog, Cloud Communications with IOT and Big Data Standards Committee
COM/MobiNet-SC	Communications Society/Mobile Communication Networks Standards Committee

New Standards Committee Recognition with Accepted P&Ps

Motion: Recommend that the SASB recognize the Computer Society/Knowledge Engineering Standards Committee, to be abbreviated as C/KESC, as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

3.2.3 NesCom Recommendations

Withdrawal Requests

IEEE Computer Society/Microprocessor Standards Committee

P3120.1

Standard for Quantum Simulator Architecture

Recommendation: Approve PAR withdrawal.

IEEE Nanotechnology Council/Standards Committee

P3155

Standard for Programmable Quantum Simulator

Recommendation: Approve PAR withdrawal.

IEEE Power and Energy Society/Power System Communications and Cybersecurity

PC37.240

Standard Cybersecurity Requirements for Power System Automation, Protection, and Control Systems

Recommendation: Approve PAR withdrawal.

Modified PARs

IEEE Computer Society/Artificial Intelligence Standards Committee

P2894

Guide for an Architectural Framework for Explainable Artificial Intelligence

Recommendation: Approve modified PAR until 31 December 2024.

P3152

Standard for Transparent Agency Identification of Humans and Machines

Recommendation: Approve modified PAR until 31 December 2026.

IEEE Engineering in Medicine and Biology Society/Standards Committee

P2725.1

Standard for Microwave Structural, Vascular, or Functional Brain Imaging Device Safety

Recommendation: Approve modified PAR until 31 December 2024.

IEEE Power and Energy Society/Switchgear

PC37.20.9a

Standard for Metal-Enclosed Switchgear Rated 1 kV to 52 kV Incorporating Gas Insulating Systems

Amendment: Clarification of metal-enclosed gas-insulated switchgear (MEGIS) types covered, refilling and monitoring requirements and production test requirements

Recommendation: Approve modified PAR until 31 December 2027.

IEEE Power Electronics Society/Standards Committee

P2004

Hardware-in-the-Loop (HIL) Simulation Based Testing of Electric Power Apparatus and Controls

Recommendation: Approve modified PAR until 31 December 2023.

Extension Requests

IEEE Computer Society/Standards Activities Board

P2807.1

Standard for Technical Requirements and Evaluation of Knowledge Graphs

Recommendation: Approve request for an extension until 31 December 2025.

P7130

Standard for Quantum Technologies Definitions

Recommendation: Approve request for an extension until 31 December 2025.

IEEE Power and Energy Society/Insulated Conductors

P386

Standard for Shielded Separable Insulated Connectors for Classes 15 kV through 35 kV

Recommendation: Approve request for an extension until 31 December 2025.

P1428

Guide for Installation Methods for Fiber Optic Cables in Power Generating Stations and in Industrial Facilities

Recommendation: Approve request for an extension until 31 December 2025.

P1717

Standard for Testing Fire-Resistive, Circuit Integrity Cables and Cable Systems Using a Hydrocarbon Pool Fire Test Protocol

Recommendation: Approve request for an extension until 31 December 2024.

P1816

Guide for Preparation Techniques of Shielded Cables Rated 2.5 kV through 46 kV and the Installation of Mating Accessories

Recommendation: Approve request for an extension until 31 December 2025.

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P1815.2

Standard Profile for Communications with Distributed Energy Resources (DERs) using IEEE Std 1815 [Distributed Network Protocol (DNP3)]

Recommendation: Approve request for an extension until 31 December 2025.

PC37.236

Guide for Power System Protective Relay Applications Over Digital Communication Channels

Recommendation: Approve request for an extension until 31 December 2025.

IEEE Power and Energy Society/Substations

P80

Guide for Safety in AC Substation Grounding

Recommendation: Approve request for an extension until 31 December 2025.

IEEE Power and Energy Society/Switchgear

PC37.13

Standard for Low-Voltage AC (1058 V and Below) Power Circuit Breakers Used in Enclosures

Recommendation: Approve request for an extension until 31 December 2025.

PC37.100.6

Guide for Determination of Test Specimens for Seismic Qualification for Building Code Applications

Recommendation: Approve request for an extension until 31 December 2025.

IEEE Power and Energy Society/Transformers

PC57.170

Guide for the Condition Assessment of Liquid Immersed Transformers, Reactors and Their Components

Recommendation: Approve request for an extension until 31 December 2025.

IEEE Society on Social Implications of Technology/Social Implications of Technology Standards Committee

P7011

Standard for the Process of Identifying and Rating the Trustworthiness of News Sources

Recommendation: Approve request for an extension until 31 December 2024.

IEEE-SASB Coordinating Committees/SCC20 – Test and Diagnosis for Electronic Systems

P1636.1-2018/Cor 1

Standard for Software Interface for Maintenance Information Collection and Analysis (SIMICA): Exchanging Test Results and Session Information via the eXtensible Markup Language (XML) – Corrigendum 1

Recommendation: Approve request for an extension until 31 December 2025.

P1671.1-2017/Cor 1

Standard for Automatic Test Markup Language (ATML) Test Descriptions – Corrigendum 1

Recommendation: Approve request for an extension until 31 December 2025.

New PARs

IEEE Computer Society/Artificial Intelligence Standards Committee

P3374

Recommended Practice for the Framework and Evaluation Methods of Audio-Driven Portraits Based on Artificial Intelligence

Recommendation: Approve new PAR until December 2027.

P3375

Standard for Specification of Cloud-Side Deep Learning Artificial Intelligence Chips for Computer Vision

Recommendation: Approve new PAR until December 2027.

P3376

Recommended Practice for Evaluating Artificial Intelligence Generated Content

Recommendation: Approve new PAR until December 2027.

P3378

Standard for Framework and Process for Large-Scale Deep Learning Model Evaluation

Recommendation: Approve new PAR until December 2027.

P3379

Standard for Compiler Interfaces of Artificial Intelligence

Recommendation: Approve new PAR until December 2027.

P7018

Standard for Security and Trustworthiness Requirements in Generative Pretrained Artificial Intelligence (AI) Models

Recommendation: Approve new PAR until December 2027.

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

P3389

Standard for Technical Framework of Runtime Application Self-Protection (RASP)

Recommendation: Approve new PAR until December 2027.

P3390

Standard for Security Management Capability Framework of Open Source Software Supply Chain for Software Providers

Recommendation: Approve new PAR until December 2027.

IEEE Consumer Technology Society/Digital Finance and Economy Standards Committee

P3812.3

Standard for Decentralized/Disintermediation Identity Framework Based on Distributed Ledger Technology (DLT)

Recommendation: Approve new PAR until December 2027.

P3815

Standard for Layer 2 Framework for Blockchain and Distributed Ledger Technologies (DLT)

Recommendation: Approve new PAR until December 2027.

P3816

Standard for Internet of Rights (IOR): Overview and Architecture

Recommendation: Approve new PAR until December 2027.

P3819

Standard for Metaverse Financial System – Reference Architecture and Technical Requirements

Recommendation: Approve new PAR until December 2027.

P3820

Standard for Explainability Capability Evaluation of Anti-Fraud Artificial intelligence (AI) Systems

Recommendation: Approve new PAR until December 2027.

P3821

Standard for Framework of Digital Intelligent Comprehensive Energy Service Station Management Systems

Recommendation: Approve new PAR until December 2027.

IEEE Consumer Technology Society/Smart Devices Standards Committee

P3385

Guide for Framework on Personal Information Protection in Smart Devices

Recommendation: Approve new PAR until December 2027.

**IEEE Engineering in Medicine and Biology Society/IEEE 11073
Standards Committee**

P11073-10207-2017/Cor 1

Health Informatics – Point-of-Care Medical Device Communication Part
10207: Domain Information and Service Model for Service-Oriented Point-of-
Care Medical Device Communication – Corrigendum 1

Recommendation: Approve new PAR until December 2027.

**IEEE Intelligent Transportation Systems Society/Standards
Committee**

P3377

Standard for In-Cabin Vehicle Sensing & Communication Networks

Recommendation: Approve new PAR until December 2027.

IEEE Power and Energy Society/Transmission and Distribution

P2030.14

Guide for Virtual Power Plant Functional Specification for Alternate and Multi-
Source Generation

Recommendation: Approve new PAR until December 2027.

IEEE Power Electronics Society/Standards Committee

P3380

Recommended Practice for Alternating Current (AC) Power System Stability
in Critical Facilities

Recommendation: Defer consideration of new PAR to the September 2023
NesCom meeting to allow time for the PAR submitters to adequately review
NesCom member comments and consider updates to the PAR.

**IEEE SA Board of Governors/International Committee on
Electromagnetic Safety**

P63480

Standard for Assessment of Human Exposure to Electromagnetic Fields from
Radiative Wireless Power Transfer Systems: Measurement and
Computational Methods (Frequency Range of 30 MHz to 300 GHz)

Recommendation: Approve new PAR until December 2027.

IEEE SA Board of Governors/SCC20 – Test and Diagnosis for Electronic Systems

P1871.3

Recommended Practice for Using JavaScript Object Notation (JSON) with XML-based Data Models for Test and Diagnosis for Electronic Systems

Recommendation: Approve new PAR until December 2027.

IEEE Signal Processing Society/Synthetic Aperture Standards Committee

P3382

Standard for Performance Metrics for Magnetic Resonance Image Reconstruction

Recommendation: Approve new PAR until December 2027.

P3383

Standard for Performance Metrics for Integrated Sensing and Communication Systems

Recommendation: Approve new PAR until December 2027.

P3384

Standard for Vocabulary for Integrated Sensing and Communication Systems

Recommendation: Approve new PAR until December 2027.

IEEE Vehicular Technology Society/Intelligent Transportation Systems

P3381

Guide for Condition Evaluation of Electric Vehicle Supply Equipment (EVSE)

Recommendation: Approve new PAR until December 2027.

PARs for the Revision of Standards

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

P1667

Standard for Discovery, Authentication, and Authorization in Host Attachments of Storage Devices

Recommendation: Approve PAR for the revision of a standard until December 2027.

IEEE Power and Energy Society/Nuclear Power Engineering

P741

Standard for Criteria for the Protection of Class 1E Power Systems and Equipment in Nuclear Power Generating Stations

Recommendation: Approve PAR for the revision of a standard until December 2027.

P1792

Recommended Practice for Nuclear Power Generating Station Preferred Power Supply Reliability

Recommendation: Approve PAR for the revision of a standard until December 2027.

IEEE Power and Energy Society/Substations

P1268

Guide for Safety in Installation and Operation of Mobile Substation Equipment

Recommendation: Approve PAR for the revision of a standard until December 2027.

PC37.122.5

Guide for Moisture Measurement and Control in SF6 Gas-Insulated Equipment Rated above 1000 V

Recommendation: Approve PAR for the revision of a standard until December 2027.

PC37.122.6

Recommended Practice for the Interface of New Gas-Insulated Equipment in Existing Gas-Insulated Substations Rated above 52 kV

Recommendation: Approve PAR for the revision of a standard until December 2027.

IEEE Power and Energy Society/Switchgear

PC37.60

International Standard – High-Voltage Switchgear and Controlgear – Part 111: Automatic Circuit Reclosers for Alternating Current Systems above 1000 V

Recommendation: Approve PAR for the revision of a standard until December 2027.

PC37.81

Guide for Seismic Qualification of Class 1E Metal-Enclosed Power Switchgear Assemblies

Recommendation: Approve PAR for the revision of a standard until December 2027.

PC37.82

Standard for the Qualification of Switchgear Assemblies for Class 1E Applications in Nuclear Power Generating Stations

Recommendation: Approve PAR for the revision of a standard until December 2027.

IEEE Power and Energy Society/Transformers

PC57.12.36

Standard Requirements for Liquid-Immersed Distribution Substation Transformers

Recommendation: Approve PAR for the revision of a standard until December 2027.

PC57.158

Guide for the Application of Tertiary and Stabilizing Windings in Power Transformers

Recommendation: Approve PAR for the revision of a standard until December 2027.

IEEE SA Board of Governors/SCC20 – Test and Diagnosis for Electronic Systems

P1671

Standard for Automatic Test Markup Language (ATML) for Exchanging Automatic Test Equipment and Test Information Via eXtensible Markup Language

Recommendation: Approve PAR for the revision of a standard until December 2027.

3.2.4 RevCom Recommendations

New

IEEE Computer Society/LAN/MAN Standards Committee

P802.3cy/Draft 3.2

IEEE Draft Standard for Ethernet – Amendment 8: Physical Layer Specifications and Management Parameters 25 Gb/s Electrical Automotive Ethernet

Recommendation: APPROVE

IEEE Computer Society/Standards Activities Board

P3079.3/Draft 3

IEEE Draft Standard for a Framework for Evaluating the Quality of Digital Humans

Recommendation: APPROVE

IEEE Industry Applications Society/Petroleum & Chemical Industry

P1017.4/Draft 3

IEEE Draft Recommended Practice for Testing and Rating of Electrical Submersible Pump Motors

Recommendation: Conditionally approve with the condition being receipt of the copyright permission letter

IEEE Instrumentation and Measurement Society/TC45 – Radiation and Nuclear Instrumentation and Systems

PN42.63/Draft 6

IEEE Draft Standard for Unmanned Aerial System-Radiation Detection (UAS-RD)

Recommendation: APPROVE

IEEE Power and Energy Society/Insulated Conductors

P2412/Draft 4

IEEE Draft Standard Test for Determining Circuit Integrity Performance of Fire Resistive Cable Systems in Passenger Rail and Road Tunnels

Recommendation: APPROVE

IEEE Power and Energy Society/Power System Communications and Cybersecurity

PC37.238a/Draft 3.4

IEEE Draft Standard Profile for Use of IEEE 1588 Precision Time Protocol in Power System Applications

Amendment 1: Adding a Type-Length-Value (TLV) to indicate the latest International Earth Rotation Service (IERS)-specified Universal Time Coordinated (UTC) Leap Second Event

Recommendation: APPROVE

IEEE Power and Energy Society/Switchgear

PC37.30.6/Draft 5

IEEE Draft Guide for Electric Motor Operators Applied to High-Voltage Air Switches Rated Above 1000 V

Recommendation: APPROVE

IEEE Power and Energy Society/Transmission and Distribution

P2939/Draft 3

IEEE Draft Guide for the Joint Use of Electric Power Transmission & Distribution (T&D) Facilities and Equipment

Recommendation: APPROVE

IEEE Vehicular Technology Society/Intelligent Transportation Systems

P1616.1/Draft 8

IEEE Draft Standard for Data Storage System for Automated Driving

Recommendation: APPROVE

Revision

IEEE Computer Society/Design Automation

P1735/Draft 2

IEEE Draft Recommended Practice for Encryption and Management of Electronic Design Intellectual Property (IP)

Recommendation: APPROVE

IEEE Power and Energy Society/Electric Machinery

P1812/Draft 6

IEEE Draft Guide for Testing Permanent Magnet Machines

Recommendation: APPROVE

IEEE Power and Energy Society/Energy Development & Power Generation

P1020/Draft 3.3

IEEE Draft Guide for Control of Small (100 kVA to 5 MVA) Hydroelectric Power Plants

Recommendation: APPROVE

IEEE Power and Energy Society/Insulated Conductors

P400/Draft 6

IEEE Draft Guide for Field Testing and Evaluation of the Insulation of Shielded Power Cable Systems Rated 5 kV and Above

Recommendation: APPROVE

P634/Draft 1

IEEE Draft Standard for Cable-Penetration Fire Stop Qualification Test

Recommendation: APPROVE

IEEE Power and Energy Society/Nuclear Power Engineering

P420/Draft 3

IEEE Draft Standard for the Design and Qualification of Class 1E Control Boards, Panels, and Racks Used in Nuclear Power Generating Stations

Recommendation: APPROVE

P1682/Draft 5

IEEE Draft Standard for Qualifying Fiber Optic Cables, Connections, and Optical Fiber Splices for Use in Safety Systems in Nuclear Power Generating Stations

Recommendation: APPROVE

IEEE Power and Energy Society/Power System Relaying and Control

PC37.90.3/Draft 6

IEEE Draft Standard Electrostatic Discharge Tests for Protective Relays

Recommendation: APPROVE

IEEE Power and Energy Society/Switchgear

PC37.20.3/Draft 7.0

IEEE Draft Standard for Metal-Enclosed Interrupter Switchgear Rated Above 1 kV ac up to and Including 48.3 kV ac

Recommendation: APPROVE

IEEE Power and Energy Society/Transmission and Distribution

P738/Draft 10

IEEE Draft Standard for Calculating the Current-Temperature Relationship of Bare Overhead Conductors

Recommendation: APPROVE

4 SASB Standing Committee Reports

4.1 Audit Committee ([AudCom](#))

Kevin Lu, AudCom Chair, reported.

4.2 New Standards Committee ([NesCom](#))

Lei Wang, NesCom Chair, reported.

Lei noted that Doug Edwards had been appointed as the NesCom mentor to P3380.

4.3 Patent Committee ([PatCom](#))

John Kulick, PatCom Chair, reported.

Chair Law noted that the recommendation on slide 7 would be discussed in Executive Session.

4.4 Procedures Committee ([ProCom](#))

Ted Burse, ProCom Chair, reported.

4.5 Standards Review Committee ([RevCom](#))

Keith Waters, RevCom Chair, reported.

4.5.1 [P2030.4](#)

IEEE SA Board of Governors/Distributed Generation, Energy Storage and Interoperability Standards Committee

P2030.4/Draft 5.4

IEEE Draft Guide for Control and Automation Installations Applied to the Electric Power Infrastructure

RevCom Recommendation: APPROVE [7=yes, 1=no (Liu), 3=abstain (Kimiagar, Siira, Weber)]

The RevCom recommendation was discussed.

There was a motion to Call the Question. The motion failed.

Discussion continued.

There was a motion to Call the Question. The motion was approved.

The SASB voted on the main motion (i.e., the RevCom recommendation to Approve P2030.4/Draft 5.4). The motion was approved. [Vote: Yes=13, No=2 (Myles, Nikolich), Abstain=5 (Biyabani, Kimiagar, Liu, Wang, Weber)]

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](#)

Yu Yuan, IEEE SA President, reported.

6.3 IEEE SA Managing Director's [Report](#)

Konstantinos Karachalios, IEEE SA Managing Director, reported.

6.4 SASB Chair's [Report](#)

Chair Law reported.

Chair Law noted that Gary Hoffman was named the [2024 recipient](#) of the IEEE Charles Proteus Steinmetz Award.

There was a round of applause for Gary.

7 New Business

None.

8 [Next Meeting](#)

The next SASB meeting will be scheduled for 21 September 2023 and will be a virtual-only meeting.

9 Approval of the [2024 Calendar](#)

There was a motion to adopt the 2024 SASB calendar, except for the 04-06 June dates.

There was discussion.

There was a motion to Call the Question. The motion was approved.

There was a vote on the main motion. The vote failed. [Vote: Yes=7, No=11, Abstain=2]

There was a motion to adopt the 2024 SASB calendar. The motion was approved. [Vote: Yes=19, No=1 (Hiertz), Abstain=1 (Robson)]

10 SASB Resolutions

The SASB recognized the Computer Society/Knowledge Engineering Standards Committee, to be abbreviated as C/KESC, as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

Prior to Executive Session, Chair Law provided an opportunity for meeting attendees to comment on PatCom’s recommendation to the SASB [see item 4.3].

The SASB entered Executive Session at 1:47 p.m. CEST (UTC+2).

11 Executive Session Items

11.1 SASB Oversight Committee RE: a Specific Standards Committee

11.2 Report from Ad Hoc RE: Standards Development Activities

The SASB concluded Executive Session at 4:22 p.m. CEST (UTC+2).

REPORT OUT of Executive Session:

The SASB approved the addition of the following text as a new subclause in the *IEEE SA Standards Board Operations Manual*, subject to review by the IEEE SA BOG for consistency with the BOG Resolution that relates to the same subject matter:

6.3.6 Interaction of Accepted LOAs under different versions of the IEEE SA patent policy

Where there is one Submitter of an Accepted LOA under the version of the *IEEE SA Standards Board Bylaws* as they existed from 15 March 2015 through 31 December 2022 [“2015 Accepted LOA Submitter”] and another Submitter of an Accepted LOA for the same IEEE standard under either a subsequent policy or using the Custom LOA Form Dated 13 June 2019 – Limited [“Other Accepted LOA Submitter”], then in that specific circumstance, and except as otherwise not permitted by law, the 2015 Accepted LOA Submitter may choose to have its Accepted LOA governed by the same patent policy provisions as govern the Accepted LOA of the Other Accepted LOA Submitter with respect to the right to seek a Prohibitive Order against the Other Accepted LOA Submitter.

12 Adjournment

There being no further business, the meeting was adjourned at 4:26 p.m. CEST (UTC+2).