IEEE SA STANDARDS BOARD (SASB) DRAFT MEETING MINUTES
05 March 2020
Shangri-La’s Eros Hotel, New Delhi, India
8:30 a.m. – 5:00 p.m.

Attendees

Chair:
Gary Hoffman

Vice Chair:
Jon Rosdahl

Past Chair:
Jean-Philippe Faure (via phone)

Members:
Ted Burse (via phone)
Doug Edwards
Travis Griffith (via phone)
Guido Hiertz (via phone)
John Kulick
David Law
Kevin Lu
Paul Nikolich [TAB Rep.] (via phone)
Dorothy Stanley
Mehmet Ulema (via phone)
Lei Wang
Sha Wei (via phone)
Philip Winston (via phone)
Daidi Zhong (via phone)
Jingyi Zhou (via phone)

Members Absent:
Konstantinos Karachalios – Secretary
Grace Gu
Howard Li
Dong Liu
Damir Novosel

Joe Koepfinger, Member Emeritus
1  Call to Order

Chair Hoffman called the meeting to order at 8:33 a.m.

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.

3.2  Consent Agenda
3.2.1  Approval of 07 November 2019 SASB Meeting Minutes
3.2.2 AudCom Recommendations

Standards Committee P&Ps

**Accepted (standards work authorized):**

- **CES/DFESC**  Consumer Electronics Society/Digital Finance and Economy Standards Committee
- **IAS/IPCSD**  Industry Applications Society/Industrial Power Conversion Systems Department
- **MTT/SCC**  Microwave Theory and Techniques Society/Standards Coordinating Committee

New Standards Committee Recognition with Accepted P&Ps

The SASB recognized the Consumer Electronics Society/Digital Finance and Economy Standards Committee, to be abbreviated as CES/DFESC, as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

The SASB recognized the Industry Applications Society/Industrial Power Conversion Systems Department, to be abbreviated as IAS/IPCSD, as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

3.2.3 ICCom Recommendations

**New Industry Connections Activities:**

**IC20-001-01**  Pre-Standardization Activities on Industrial AI ICAID
ICAID:  [https://ieee-sa.imeetcentral.com/p/eAAAAAAAQ1_IAAAAABOzuKE](https://ieee-sa.imeetcentral.com/p/eAAAAAAAQ1_IAAAAABOzuKE)
Recommendation: APPROVE

**IC20-002-01**  Intelligent Transportation Systems (ITS) Testbed ICAID
ICAID:  [https://ieee-sa.imeetcentral.com/p/eAAAAAAAQ1_jAAAAAFpKZYc](https://ieee-sa.imeetcentral.com/p/eAAAAAAAQ1_jAAAAAFpKZYc)
Recommendation: APPROVE

**IC20-003-01**  AI Systems Governance for Cities
ICAID:  [https://ieee-sa.imeetcentral.com/p/eAAAAAAAQ1_jAAAAABizfRA](https://ieee-sa.imeetcentral.com/p/eAAAAAAAQ1_jAAAAABizfRA)
Recommendation: Conditional Approval
There was a motion to conditionally approve IC20-003-01 based on adding dates to section 5. This has now been completed.

**IC20-004-01**  Assessment of Standardization Gaps for Safe Automated Driving
ICAID:  [https://ieee-sa.imeetcentral.com/p/eAAAAAAAQ4xSAAAAACvkb8U](https://ieee-sa.imeetcentral.com/p/eAAAAAAAQ4xSAAAAACvkb8U)
Recommendation: APPROVE
**IC20-005-01** Global Initiative on Blockchain-Based Omnidirectional Pandemic Surveillance
ICAID: https://ieee-sa.imeetcentral.com/p/eAAAAAAAQ5IEMAAAEqAGbQ
Recommendation: APPROVE

**Revised/Renewed Industry Connections Activities:**

**IC16-002** Global Initiative on Ethics of Autonomous and Intelligent Systems
ICAID: https://ieee-sa.imeetcentral.com/p/eAAAAAAAQ2fmAAAAACEUwtw
Recommendation: APPROVE

**IC17-006** Big Data Governance and Metadata Management
ICAID: https://ieee-sa.imeetcentral.com/p/eAAAAAAAQ4xWAAAAAHUbP5U
Recommendation: APPROVE

**IC18-001** Facilities Joint Use
ICAID: https://ieee-sa.imeetcentral.com/p/eAAAAAAAQ3bwAAAAAFhQBpY
Recommendation: APPROVE

**Terminated ICAIDs:**
**IC18-002** IP Security Program
**IC16-006** International Roadmap for Devices and Systems (IRDS)

**Extension:**
There was a motion to give the ICAID, **IC16-001** Open Data, an extension until 1 June 2020.
Recommendation: APPROVE

3.2.4 NesCom Recommendations

**Withdrawal Requests:**

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

**P2721** Standard for Wireless Diabetes Device Security Assurance
**Recommendation: Approve PAR withdrawal**

**IEEE Reliability Society/IEEE Reliability**

**P1467** Standard for Reliability Growth
**Recommendation: Approve PAR withdrawal**
IEEE Society on Social Implications of Technology/Social Implications of Technology Standards Committee

**P7013**
Inclusion and Application Standards for Automated Facial Analysis Technology
**Recommendation:** Approve PAR withdrawal

**Modified PARs:**

IEEE Consumer Electronics Society/Standards Committee

**P2049.1**
Standard for Human Augmentation: Taxonomy and Definitions
**Recommendation:** Approve modified PAR

**P2049.2**
Standard for Human Augmentation: Privacy and Security
**Recommendation:** Approve modified PAR

**P2049.3**
Standard for Human Augmentation: Identity
**Recommendation:** Approve modified PAR

**P2049.4**
Standard for Human Augmentation: Methodologies and Processes for Ethical Considerations
**Recommendation:** Approve modified PAR

**P2788**
Standard for Circulating Air Pressure Physiotherapy Equipment Used in the Home Healthcare Environment
**Recommendation:** Approve modified PAR

**P2843**
Standard for Measuring Accessibility Experience and Compliance
**Recommendation:** Approve modified PAR

IEEE Vehicular Technology Society/Intelligent Transportation Systems

**P1609.2.1**
Wireless Access in Vehicular Environments (WAVE) – Certificate Management Interfaces for End-Entities
**Recommendation:** Approve modified PAR

IEEE-SASB Coordinating Committees/SCC21 – Fuel Cells, Photovoltaics, Dispersed Generation, and Energy Storage
P1547.3
Guide for Cybersecurity of Distributed Energy Resources Interconnected with Electric Power Systems
Recommendation: Approve modified PAR

Extension Requests:

IEEE Power and Energy Society/Power System Communications and Cybersecurity

PC93.5
Standard for Power Line Carrier Transmitter/Receiver Equipment used to Transfer Discrete Teleprotection Signals
Recommendation: Approve request for an extension until December 2022

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

PC62.11
Standard for Metal-Oxide Surge Arresters for AC Power Circuits (> 1 kV)
Recommendation: Approve request for an extension until December 2020

New PARs:

IEEE Communications Society/Edge, Fog, Cloud Communications with IOT and Big Data Standards Committee

P1912
Standard for Privacy and Security Framework for Consumer Wireless Devices
Recommendation: Approve new PAR until December 2024

IEEE Communications Society/Mobile Communication Networks Standards Committee

P2872
Standard for Interoperable and Secure Wireless Local Area Network (WLAN) Infrastructure and Architecture
Recommendation: Approve new PAR until December 2024

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

P1950.1
Standard for Communications Architectural Functional Framework for Smart Cities
Recommendation: Approve new PAR until December 2024

P1951.1
Standard for Smart City Component Systems Discovery and Semantic Exchange of Objectives

**Recommendation: Approve new PAR until December 2024**

IEEE Consumer Electronics Society/Standards Committee

**P2866.1**
Standard for Device Trusted Extension: Software Architecture

**Recommendation: Approve new PAR until December 2024**

**P2867**
Guide for Direct Current (DC) Power Transmitter of Wireless Charging for Kitchen Appliances

**Recommendation: Approve new PAR until December 2024**

**P2868**
Standard for Architectural Framework and Technical Requirements for Smart Display System

**Recommendation: Approve new PAR until December 2024**

**P2876**
Recommended Practice for Inclusion, Dignity and Privacy in Online Gaming

**Recommendation: Approve new PAR until December 2024**

IEEE Electromagnetic Compatibility Society/Standards Development Committee

**P2855**
Recommended Practice for the Electromagnetic Characterization of Cable/Connector Assembly Shielding Effectiveness in Frequency Range of Direct Current to 40 GHz

**Recommendation: Approve new PAR until December 2024**

IEEE Engineering in Medicine and Biology Society/Standards Committee

**P2621.1**

**Recommendation: Approve new PAR until December 2024**

**P2621.2**

**Recommendation: Approve new PAR until December 2024**

**P2621.3**
Recommendation: Approve new PAR until December 2024

P2864
Guide for a Software Change Control System for Three-Dimensional (3D) Bioprinting of Tissue-Engineered Medical Products (TEMPs)
Recommendation: Approve new PAR until December 2024

IEEE Power and Energy Society/Analytic Methods for Power Systems

P2869
Guide for the Synchronous Monitoring of Direct Current (DC) Bias Magnetic Current Distribution in Power Grid
Recommendation: Approve new PAR until December 2024

IEEE Power and Energy Society/Power System Communications and Cybersecurity

PC37.238a
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 new PAR until December 2024

IEEE Power and Energy Society/Transformers

PC57.93a
IEEE Approved Draft Guide for Installation and Maintenance of Liquid-Immersed Power Transformers
Amendment: Cold Start of Power Transformers filled with Natural Ester Fluids
Recommendation: Approve new PAR until December 2024

IEEE Power and Energy Society/Transmission and Distribution

P2870
Grip Test Method Guide for Fittings of High-Temperature, Low-Sag Overhead Conductor under Tension and Electric Current Co-Effect
Recommendation: Approve new PAR until December 2024

P2871
Standard for Wedge-Shaped Groove Clamps
Recommendation: Approve new PAR until December 2024

P751
Guide for Wood Structures Used for Overhead Electric Transmission Lines
Recommendation: Approve new PAR until December 2024
IEEE Vehicular Technology Society/Rail Transportation Standards Committee

P1833
Guidelines for the Design of Direct Current Overhead Contact Systems for Transit Systems
Recommendation: Approve new PAR until December 2024

PARs for the Revision of Standards:

IEEE Computer Society/Software & Systems Engineering Standards Committee

P41062
Software Engineering – Life Cycle Processes – Software Acquisition
Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE Power and Energy Society/Energy Development & Power Generation

P1095
Guide for the Installation of Vertical Generators and Generator/Motors for Hydroelectric Applications
Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE Power and Energy Society/Insulated Conductors

P1637
Guide for Selection and Application of Terminations for Shielded Alternating-Current Power Cable Rated 5 kV – 46 kV
Recommendation: Approve PAR for the revision of a standard until December 2024

P82
Standard Test Procedure for Impulse Voltage Tests on Insulated Conductors
Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE Power and Energy Society/Switchgear

PC37.41
Standard for Design Tests and Specifications for High-Voltage (> 1000 V) Fuses and Accessories
Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE Power and Energy Society/Transformers
PC57.12.28
Standard for Pad-Mounted Equipment – Enclosure Integrity
Recommendation: Approve PAR for the revision of a standard until December 2024

PC57.12.29
Standard for Pad-Mounted Equipment – Enclosure Integrity for Coastal Environments
Recommendation: Approve PAR for the revision of a standard until December 2024

PC57.12.52
Standard for Sealed Dry-Type Distribution and Power Transformers
Recommendation: Approve PAR for the revision of a standard until December 2024

PC57.146
Guide for Interpretation of Gases Generated in Silicone-Immersed Transformers
Recommendation: Approve PAR for the revision of a standard until December 2024

PC57.163
Guide for Establishing Power Transformer Capability while under Geomagnetic Disturbances
Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE Power and Energy Society/Transmission and Distribution

P1308
Recommended Practice for Instrumentation: Specifications for Magnetic Flux Density and Electric Field Strength Meters – 10 Hz to 3 kHz
Recommendation: Approve PAR for the revision of a standard until December 2024

P563
Guide on Conductor Self-Damping Measurements
Recommendation: Approve PAR for the revision of a standard until December 2024

P664
Recommendation: Approve PAR for the revision of a standard until December 2024

P738
Standard for Calculating the Current-Temperature Relationship of Bare Overhead Conductors
Recommendation: Approve PAR for the revision of a standard until December 2024

P824
Standard for Series Capacitor Banks in Power Systems
Recommendation: Approve PAR for the revision of a standard until December 2024

PC135.62
Standard for Zinc-Coated Forged Anchor Shackles
Recommendation: Approve PAR for the revision of a standard until December 2024

3.2.5 RevCom Recommendations

NEW

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

P2790/Draft 2790
IEEE Draft Standard for Biometric Liveness Detection
Recommendation: APPROVE

IEEE Computer Society/Standards Activities Board

P2418.2/Draft D2
IEEE Draft Standard Data Format for Blockchain Systems
Recommendation: APPROVE

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

P3001.4/Draft D3
IEEE Draft Recommended Practice for Estimating the Costs of Industrial and Commercial Power Systems
Recommendation: APPROVE

IEEE Power and Energy Society/Power System Relaying and Control

PC37.250/Draft D1.30
IEEE Draft Guide for Engineering, Implementation, and Management of System Integrity Protection Schemes
Recommendation: APPROVE

IEEE Power and Energy Society/Switchgear
PC37.20.1a/Draft PC37.20.1a D7
IEEE Draft Standard for Metal-Enclosed Low-Voltage (1000 Vac and below, 3200 Vdc and below) Power Circuit Breaker Switchgear Amendment 1: Control and Secondary Circuits and Devices, and All Wiring
Recommendation: APPROVE

PC37.20.2a/Draft PC37.20.2a D9
IEEE Draft Standard for Metal-Clad Switchgear Amendment 1: Control and Secondary Circuits and Devices, and All Wiring
Recommendation: APPROVE

PC37.21a/Draft PC37.21a D7
IEEE Draft Standard for Control Switchboards Amendment 1: Control and Secondary Circuits and Devices, and All Wiring
Recommendation: APPROVE

IEEE Power and Energy Society/Transmission and Distribution

PC135.80-2012/Cor 1/Draft 1
IEEE Draft Standard for Fasteners for Overhead Line Construction – Corrigendum 1: Table 5 – Dimensions of Hex Nuts
Recommendation: APPROVE

IEEE Systems, Man, and Cybernetics Society/Standards Committee

P7010/Draft 4
IEEE Draft Recommended Practice for Assessing the Impact of Autonomous and Intelligent Systems on Human Well-Being
Recommendation: APPROVE

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

P1547a/Draft 1.4
Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces Amendment to IEEE Std 1547-2018 to Provide More Flexibility for Adoption of Abnormal Operating Performance Category III
Recommendation: Conditional Approval
There was a motion to conditionally approve P1547a based upon receipt of the copyright permissions.

REVISION

IEEE Computer Society/Learning Technology
P1484.12.3/Draft P1484.12.3_D2
Recommendation: APPROVE

IEEE Power Electronics Society/Standards Committee

P389/Draft P389_D2019DEC
IEEE Draft Recommended Practice for Testing Transformers and Inductors for Electronics Applications
Recommendation: APPROVE

IEEE Power and Energy Society/Energy Development & Power Generation

P1248/Draft 15
IEEE Draft Guide for the Commissioning of Electrical Systems in Hydroelectric Power Plants
Recommendation: APPROVE

IEEE Power and Energy Society/Energy Storage & Stationary Battery Committee

P1679/Draft D5
Recommended Practice for the Characterization and Evaluation of Energy Storage Technologies in Stationary Applications
Recommendation: APPROVE

IEEE Power and Energy Society/Transmission and Distribution

P1036/Draft D9
IEEE Draft Guide for the Application of Shunt Power Capacitors
Recommendation: APPROVE

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

P1547.1/Draft D9.9
IEEE Draft Standard Conformance Test Procedures for Equipment Interconnecting Distributed Energy Resources with Electric Power Systems and Associated Interfaces
Recommendation: APPROVE

3.2.6 Standards for Transfer to Inactive-Reserved Status

836-2009 AES/GA IEEE Recommended Practice for Precision Centrifuge Testing of Linear Accelerometers
2600.1-2009 C/CPSC IEEE Standard for a Protection Profile in Operational Environment A


2600.3-2009 C/CPSC IEEE Standard Protection Profile for Hardcopy Devices in IEEE Std 2600-2008 Operational Environment C

802.15.5-2009 C/LM IEEE Recommended Practice for Information Technology – Telecommunications and Information Exchange between Systems – Local and Metropolitan Area Networks – Specific Requirements Part 15.5: Mesh Topology Capability in Wireless Personal Area Networks (WPANs)


1621-2004 C/MSC IEEE Standard for User Interface Elements in Power Control of Electronic Devices Employed in Office/Consumer Environments

1061-1998 C/S2ESC IEEE Standard for a Software Quality Metrics Methodology


1044-2009 C/S2ESC IEEE Standard Classification for Software Anomalies

1680-2009 C/SAB IEEE Standard for Environmental Assessment of Electronic Products

1450.6.1-2009 C/TT IEEE Standard for Describing On-Chip Scan Compression


1783-2009 DEI/SC IEEE Guide for Test Methods and Procedures to Evaluate the Electrical Performance of Insulators in Freezing Conditions

C62.64-2009 PE/SPDLV IEEE Standard Specifications for Surge Protectors Used in Low-Voltage Data, Communications, and Signaling Circuits

951-1996 PE/T&D IEEE Guide to the Assembly and Erection of Metal Transmission Structures
4  SASB Responsibilities and Fiduciary Duty

Claire Topp presented.

5  Appointment of the SASB Vice Chair

There were four candidates who had been nominated and accepted the nomination:
   Ted Burse, Doug Edwards, Paul Nikolich, and Jon Rosdahl.

The SASB conducted an email ballot.

The initial ballot resulted in a tie between two candidates.

The SASB conducted an email runoff ballot.

The result was announced after item 8.1.

Jon Rosdahl was appointed as the SASB Vice Chair. There was a round of applause for Jon.

6  SASB Standing Committee Reports
6.1 Audit Committee (AudCom)

This item occurred after item 10.2.

John Kulick, AudCom Chair, reported.

6.2 Industry Connections Committee (ICCom)

Kevin Lu, ICCom Chair, reported.

6.3 New Standards Committee (NesCom)

Dorothy Stanley, NesCom Chair, reported.

6.4 Patent Committee (PatCom)

David Law, PatCom Chair, reported.

6.5 Procedures Committee (ProCom)

Dorothy Stanley, Acting ProCom Chair, reported.

6.6 Standards Review Committee (RevCom)

Jon Rosdahl, Acting RevCom Chair, reported.

7 Standards Coordinating Committee Reports
7.1 SCC Coordinator’s Report

Mehmet Ulema, SCC Coordinator, reported.

There was a motion to accept the submitted reports from SCC04, SCC20, and SCC22. In the absence of objection, the motion was approved.

7.2 Scheduled Reports Due in March:
7.2.1 SCC04 – Electrical Insulation
7.2.2 SCC20 – Test and Diagnosis for Electronic Systems
7.2.3 SCC22 – Power Quality

8 Old Business
8.1 Update RE: P802.11ax

Dorothy Stanley, 802.11 Chair, reported.
9 New Business

9.1 IEEE SA N&A Asks of SASB

Jim Matthews, N&A Chair, reported.

IEEE SA President Robert Fish noted that anyone who is interested in joining a BOG Strategic Management and Delivery Committee (SMDC) may contact him.

9.2 SASB Ad Hoc RE: Globalization of the SASB

Dorothy Stanley provided a verbal report.

- Expand opportunities for leadership and participation in SASB and its standing committees
- Ad hoc (to be formed) will be open to SASB Members and SASB standing committee members. Chair Hoffman will initiate the call for participants.

9.3 New Delhi Outreach Report

Sri Chandrasekaran, Senior Director – Standards & Technology, reported.

Chair Hoffman thanked Sri, Munir Mohammed, Ravindra Desai, and all of the participants for an outstanding outreach program.

Chair Hoffman thanked all of the Fellowship Program participants for their attendance and participation. He also asked folks to consider submitting candidate forms for SASB (and committees).

10 Informational Reports

10.1 IEEE SA Managing Director’s Report

The Managing Director’s Report was provided in the SASB document repository.

10.2 IEEE SA President’s Report

[Time-Specific: 09:15 a.m.]

This item occurred at 9:00 a.m. after item 5.

IEEE SA President Robert Fish presented.

10.3 CAG Report
Don Wright, SASB Liaison to the CAG, reported.

10.4 TAB Committee on Standards

Jon Rosdahl reported.

10.5 SASB Chair’s Report

Chair Hoffman reported.

Chair Hoffman presented plaques to Karen Kenney and Sam Sciacca, who are both retiring soon; this is their last in-person SASB meeting series.

Presented to Karen Kenney in appreciation and recognition for outstanding service and dedication to the IEEE SA Standards Board during her career, including as Senior Director in charge of IEEE SA governance and IEEE SA meeting planning. In addition, Karen is recognized for her many years as a Member of PatCom.

Presented to Sam Sciacca in appreciation and recognition for outstanding service and dedication to the IEEE SA Standards Board during his career, including as Senior Director in charge of IEEE SA governance, IEEE SA publishing and education, and IEEE SA operational program management.

11 Next Meeting

The next SASB meeting is scheduled for Wednesday, 03 June 2020, in Berlin, Germany.

There will be a meeting of the BOG’s Strategic Planning Coordination Committee (SPCC) on 13 March to discuss contingency planning.

12 SASB Resolutions

The SASB recognized the Consumer Electronics Society/Digital Finance and Economy Standards Committee, to be abbreviated as CES/DFESC, as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

The SASB recognized the Industry Applications Society/Industrial Power Conversion Systems Department, to be abbreviated as IAS/IPCSD, as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

13 Adjournment

There being no further business, the meeting was adjourned at 11:40 a.m.