IEEE-SA Standards Board
Meeting Minutes
30 June 2016
Sofitel Kurfuerstendamm Hotel, Berlin, Germany

Attendees

Chair:
Jean-Philippe Faure

Vice Chair:
Ted Burse

Past Chair:
John Kulick

Secretary:
Konstantinos Karachalios

Members:
Chuck Adams
Masayuki Ariyoshi
Stephen Dukes [TAB Rep.]
Travis Griffith
Gary Hoffman
Ron Hotchkiss
Michael Janezic
Hung Ling
Kevin Lu
Annette Reilly
Gary Robinson
Mehmet Ulema
Don Wright
Daidi Zhong

Members Absent:
Jianbin Fan
Yingli Wen
Howard Wolfman
Yu Yuan

Joe Koepfinger, Member Emeritus

**IEEE Staff:**
Kim Breitfelder  
Matthew Ceglia  
Jayne Cerone  
Tom Compton  
Karen Evangelista  
Mary Ellen Hanntz  
Yvette Ho Sang  
Karen Kenney  
Soo Kim  
Moira Patterson  
Dave Ringle, Recording Secretary  
Rudi Schubert  
Sam Sciacca  
Lisa Weisser

**IEEE Outside Legal Counsel:**
Claire Topp

**Guests:**
Evelyn Chen  
Doug Edwards  
Scott Gilfillan  
Jim Harlan  
David Law  
Xiaohui Liu  
Stefanie Mielert  
Gil Ohana  
Elisabeth Opie  
Glenn Parsons  
Ron Petersen  
Vincenzo Piuri  
Jon Rosdahl  
Jack Sheldon  
Dorothy Stanley  
Adrian Stephens  
Victoria Wang  
Phil Wennblom  
Francesco Zacca  
Jingyi Zhou
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1 Call to Order

Jean-Philippe Faure, IEEE-SA Standards Board Chair, called the meeting to order at 9:00 a.m.

There was a round of introductions by all present.

2 Agenda
2.1 Approval of Agenda

There was a motion to approve the agenda. The motion was unanimously approved.

2.2 Consent Agenda
2.2.1 Approval of 03 March 2016 SASB Meeting Minutes

2.2.2 AudCom Recommendations

Accepted (standards work authorized):

- C/DA Computer Society/Design Automation
- C/MSC Computer Society/Microprocessor Standards Committee
- EMC/SDCom Electromagnetic Compatibility Society/Standards Development Committee
- IM/MBM Instrumentation and Measurement Society/Medical and Biological Measurements
- IM/MPS Instrumentation and Measurement Society/Measurements in Power Systems

2.2.3 ICCom Recommendations

New Industry Connections Activity Approvals:

IC16-005-02 Consumer Healthcare Alliance
https://ieee-sa.imeetcentral.com/p/eAAAAAAAIPLYAAAAAEUAYuI
Recommendation: Approve

Renew/Revised Industry Connections Activity Approval:

IC09-001 Computer Security Groups (ICSG)
https://ieee-sa.imeetcentral.com/p/eAAAAAAAJg_QAAAAAOAVNw
Recommendation: Approve

IC15-002-02 Smart Glasses Roadmap Project
https://ieee-sa.imeetcentral.com/p/eAAAAAAAJxfMAAAAAADfsP8Q
Recommendation: Approve

IC16-004-02 Augmented Reality in the Oil/Gas/Electric Industry
https://ieee-sa.imeetcentral.com/p/eAAAAAAAJ1aKAAAAAHl6w5Y
Recommendation: Approve

2.2.4 NesCom Recommendations

Modified PARs

IEEE Aerospace and Electronic Systems Society/Gyro Accelerometer Panel

P952-1997/Cor 1
Standard Specification Format Guide and Test Procedure for Single-Axis Interferometric Fiber Optic Gyros – Corrigendum 1: Figure 1 and Clauses 5.3.4, 8.3, 12.11.4.3.2, 12.11.4.3.3, 12.11.4.3.4, 12.12.3.1, 12.12.4.1
Recommendation: Approve modified PAR

IEEE-SA Board of Governors/Corporate Advisory Group

P1899
Guide for Establishing Basic Requirements for High-Voltage Direct Current (HVDC) Transmission Protection and Control Equipment
Recommendation: Approve modified PAR

IEEE Communications Society/Standards Development Board

P1904.3
Standard for Radio over Ethernet Encapsulations and Mappings
Recommendation: Approve modified PAR

IEEE Industry Applications Society/Petroleum & Chemical Industry

P844.1
844.1/CSA C22.2 No.293.1: Standard for Skin Effect Trace Heating of Pipelines, Vessels, Equipment, and Structures – General, Testing, Marking, and Documentation Requirements
Recommendation: Approve modified PAR

P844.2

**Recommendation: Approve modified PAR**

IEEE Power and Energy Society/Switchgear

**PC37.21**
Standard for Control Switchboards

**Recommendation: Approve modified PAR**

**PC37.100.5**
Standard for Definitions of High Voltage Circuit Breakers above 1000 Vac and 3200 Vdc, and Reclosers and Other Distribution Equipment from 1000 Vac to 38,000 Vac

**Recommendation: Approve modified PAR**

**Extension Requests:**

IEEE Aerospace and Electronic Systems Society/Gyro Accelerometer Panel

**P952-1997/Cor 1**
Standard Specification Format Guide and Test Procedure for Single-Axis Interferometric Fiber Optic Gyros – Corrigendum 1: Figure 1 – Gyro Axes and Misalignment Angles

**Recommendation: Approve request for an extension until 2017**

IEEE Education Society/Standards Committee

**P1876**
Standard for Networked Smart Learning for Online Laboratories

**Recommendation: Approve request for an extension until 2018**

IEEE Power and Energy Society/Switchgear

**PC37.10.1**
Guide for the Selection of Monitoring for Circuit Breakers

**Recommendation: Approve request for an extension until 2018**

IEEE Power and Energy Society/Transmission and Distribution

**P563**
Guide on Conductor Self-Damping Measurements

**Recommendation: Approve request for an extension until 2018**

P664

**Recommendation: Approve request for an extension until 2018**

IEEE Power and Energy Society/Transformers

**P60076-16**
Power Transformers – Part 16: Transformers for Wind Turbine Application

**Recommendation: Approve request for an extension until 2018**

NEW PARs

IEEE Computer Society/LAN/MAN Standards Committee

**P802.1Qcr**
Standard for Local and Metropolitan Area Networks-Bridges and Bridged Networks Asynchronous Traffic Shaping

**Recommendation: Approve new PAR until December 2020**

**P802.16s**
Standard for Air Interface for Broadband Wireless Access Systems Amendment: Fixed and Mobile Wireless Access in Channel Bandwidth up to 1.25 MHz

**Recommendation: Approve new PAR until December 2020**

IEEE Computer Society/Microprocessor Standards Committee

**P1722-2016/Cor 1**
Standard for a Transport Protocol for Time Sensitive Applications in a Bridged Local Area Network – Corrigendum 1

**Recommendation: Approve new PAR until December 2020**

IEEE Computer Society/Software & Systems Engineering Standards Committee

**P7000**
Model Process for Addressing Ethical Concerns during System Design

**Recommendation: Approve new PAR until December 2020**

IEEE Electromagnetic Compatibility Society/Standards Development Committee

**P473**
Recommended Practice for an Electromagnetic Site Survey (10 kHz to 40 GHz)

**Recommendation: Approve new PAR until December 2020**

**P2715**
Guide for the Characterization of the Shielding Effectiveness of Planar Materials
**Recommendation: Approve new PAR until December 2020**

**P2716**  
Guide for the Characterization of the Effectiveness of Printed Circuit Board Level Shielding  
**Recommendation: Approve new PAR until December 2020**

IEEE Industry Applications Society/Technical Books Coordinating Committee

**P3001.4**  
Recommended Practice for Estimating the Costs of Industrial and Commercial Power Systems  
**Recommendation: Approve new PAR until December 2020**

IEEE Power and Energy Society/Insulated Conductors

**P2740**  
Guide for the Selection and Installation of Flexible Electrical Cables and Systems in Hazardous (Classified) Locations on Land Drilling Rigs  
**Recommendation: Approve new PAR until December 2020**

IEEE Power and Energy Society/Substations

**P1815.1-2015/Cor 1**  
Standard for Exchanging Information between Networks Implementing IEC 61850 and IEEE Std 1815 (Distributed Network Protocol – DNP3) – Corrigendum 1  
**Recommendation: Approve new PAR until December 2020**

IEEE Power and Energy Society/Transformers

**PC57.12.90-2015/Cor 1**  
**Recommendation: Approve new PAR until December 2020**

**PC57.163-2015/Cor 1**  
Guide for Establishing Power Transformer Capability while under Geomagnetic Disturbances – Corrigendum 1  
**Recommendation: Approve new PAR until December 2020**

**PC57.164**  
Guide for Establishing Short Circuit Withstand Capabilities of Liquid Immersed Power Transformers, Regulators, and Reactors  
**Recommendation: Approve new PAR until December 2020**
IEEE Vehicular Technology Society/Rail Transportation Standards Committee

**P1627**
Standard for Transient Overvoltage Protection of DC Electrification Systems by Application of Surge Arrestors

*Recommendation: Approve new PAR until December 2020*

**P2720**
Rail Potential Management Guide for Direct Current Traction Electrification Systems

*Recommendation: Approve new PAR until December 2020*

PARs for the Revision of Standards

IEEE Computer Society/Information Assurance

**P1667**
Standard for Discovery, Authentication, and Authorization in Host Attachments of Storage Devices

*Recommendation: Approve PAR for the revision of a standard until December 2020*

IEEE Computer Society/Software & Systems Engineering Standards Committee

**P15289**
ISO/IEC/IEEE Systems and Software Engineering – Content of Life-Cycle Information Items (Documentation)

*Recommendation: Approve PAR for the revision of a standard until December 2020*

**P24765**
Systems and Software Engineering – Vocabulary

*Recommendation: Approve PAR for the revision of a standard until December 2020*

IEEE Communications Society/Standards Development Board

**P2410**
Standard for Biometric Open Protocol

*Recommendation: Approve PAR for the revision of a standard until December 2020*

IEEE Industry Applications Society/Power Systems Engineering

**P1668**
Recommended Practice for Voltage Sag and Short Interruption Ride-Through Testing for End-Use Electrical Equipment Rated Less than 1000 V

**Recommendation: Approve PAR for the revision of a standard until December 2020**

IEEE Instrumentation and Measurement Society/TC10 – Waveform Generation Measurement and Analysis

**P1241**
Standard for Terminology and Test Methods for Analog-to-Digital Converters

**Recommendation: Approve PAR for the revision of a standard until December 2020**

IEEE Power and Energy Society/Energy Development & Power Generation

**P666**
Design Guide for Electric Power Service Systems for Generating Stations

**Recommendation: Approve PAR for the revision of a standard until December 2020**

IEEE Power and Energy Society/Switchgear

**PC37.12.1**
Recommended Practice for Instruction Manual Content of High-Voltage Circuit Breakers (Over 1000 Volts)

**Recommendation: Approve PAR for the revision of a standard until December 2020**

IEEE Power and Energy Society/Transformers

**PC57.18.10**
Standard Practices and Requirements for Semiconductor Power Rectifier Transformers

**Recommendation: Approve PAR for the revision of a standard until December 2020**

**PC57.148**
Standard for Control Cabinets for Power Transformers

**Recommendation: Approve PAR for the revision of a standard until December 2020**

IEEE Vehicular Technology Society/Intelligent Transportation Systems

**P1609.0**
Guide for Wireless Access in Vehicular Environments (WAVE) – Architecture
Recommendation: Approve PAR for the revision of a standard until December 2020

P1609.12
Standard for Wireless Access in Vehicular Environments (WAVE) – Identifier Allocations
Recommendation: Approve PAR for the revision of a standard until December 2020

IEEE Vehicular Technology Society/Rail Transportation Standards Committee

P1653.3
Guide for Rail Transit Traction Power Systems Modeling
Recommendation: Approve PAR for the revision of a standard until December 2020

2.2.5 RevCom Recommendations

NEW

P802.1BA-2011/Cor 1/Draft D0.0 (C/LM) IEEE Draft Standard for Local and Metropolitan Area Networks-Audio Video Bridging (AVB) Systems – Corrigendum 1: Technical and Editorial Corrections

Recommendation: APPROVE

P802.1Qbu/Draft D3.1 (C/LM) IEEE Draft Standard for Local and Metropolitan Area Networks – Media Access Control (MAC) Bridges and Virtual Bridged Local Area Networks Amendment: Frame Preemption

Recommendation: APPROVE

P802.1Qbz/Draft 2.4 (C/LM) IEEE Draft Standard for Local and Metropolitan Area Networks – Bridges and Bridged Networks Amendment: Enhancements to Bridging of 802.11 Media Amendment

Recommendation: APPROVE

P802.3bp/Draft D3.4 (C/LM) IEEE Draft Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 1 Gb/s Operation over a Single Twisted Pair Copper Cable

Recommendation: APPROVE
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**P802.3bq/Draft D3.3** (C/LM) IEEE Draft Standard for Ethernet Amendment: Physical Layer and Management Parameters for 25 Gb/s and 40 Gb/s Operation, Types 25GBASE-T and 40GBASE-T

Recommendation: APPROVE

**P802.3br/Draft D3.1** (C/LM) IEEE Draft Standard for Ethernet Amendment: Specification and Management Parameters for Interspersing Express Traffic

Recommendation: APPROVE

**P802.3by/Draft D3.2** (C/LM) IEEE Draft Standard for Ethernet Amendment: Media Access Control Parameters, Physical Layers and Management Parameters for 25 Gb/s Operation

Recommendation: APPROVE

**P1003.1-2008/Cor 2/Draft 4** (C/PA) IEEE Draft Standard for Information Technology – Portable Operating System Interface (POSIX) – Corrigendum 2

Recommendation: APPROVE

**P1484.13.4/Draft 4** (C/LT) IEEE Draft Recommended Practice for Learning Technology – IMS Content Packaging Information Model (CP) Version 1.2 – Mapping to the Conceptual Model for Resource Aggregation

Recommendation: APPROVE

**P1653.1/Draft 12** (VT/RTSC) IEEE Draft Standard for Traction Power Transformers for Substation Applications up to 1500 Volts DC Nominal Output

Recommendation: APPROVE

**P1881/Draft D11** (PE/SB) IEEE Draft Standard Glossary of Stationary Battery Terminology

Recommendation: APPROVE

**P1896/Draft 2.4** (VT/RTSC) IEEE Draft Standard for Identification of Contact Wire Used in Overhead Contact Systems

Recommendation: APPROVE

Recommendation: APPROVE

**P3006.2/Draft D7** (IAS/TBCC) IEEE Draft Recommended Practice for Evaluating the Reliability of Existing Industrial and Commercial Power Systems

Recommendation: APPROVE

**P11073-10422/Draft 8** (EMB/11073) IEEE Draft Standard for Health Informatics – Personal Health Device Communication – Device Specialization – Urine Analyzer

Recommendation: APPROVE

**PC57.156/Draft PC57.156D4.3** (PE/TR) IEEE Draft Guide for Tank Rupture Mitigation of Liquid-Immersed Power Transformers and Reactors

Recommendation: APPROVE

**REVISION**

**P386/Draft 3.2** (PE/IC) IEEE Draft Standard for Separable Insulated Connector Systems for Power Distribution Systems Rated 2.5 kV through 35 kV

Recommendation: APPROVE


Recommendation: APPROVE


Recommendation: APPROVE

**P1647/Draft 3** (C/DA) IEEE Draft Standard for the Functional Verification Language e

Recommendation: APPROVE

**P1652/Draft 10.5** (COM/SDB) IEEE Draft Standard for Translating Head and Torso Simulator Measurements from Eardrum to Other Acoustic Reference Points

Recommendation: APPROVE
PC37.13.1/Draft 5.1 (PE/SWG) IEEE Draft Standard for Definite-Purpose Switching Devices for Use in Metal-Enclosed Low-Voltage (600 Vac and Below) Power Circuit Breaker Switchgear

Recommendation: APPROVE

3 Legal Update

None

4 IEEE-SA Managing Director’s Report

Konstantinos Karachalios, IEEE-SA Managing Director, reported.

5 SASB Standing Committee Reports

5.1 Audit Committee (AudCom)

Michael Janezic, AudCom Chair, reported.

5.2 Industry Connections Committee (ICCom)

John Kulick, ICCom Chair, reported.

5.3 New Standards Committee (NesCom)

Stephen Dukes, NesCom Chair, reported.

Michael Janezic, NesCom Ad Hoc on Social Implications and Ethical Considerations for New Projects Chair, also reported.

5.4 Patent Committee (PatCom)

Don Wright, PatCom Chair, reported.

5.5 Procedures Committee (ProCom)

- SASB OpMan RE: Draft Distribution
- SASB OpMan RE: Mandatory Coordination

Ted Burse, ProCom Chair, reported.

AI – Dave Ringle to conduct a 30-day SASB email ballot on P&P change (draft distribution)

5.6 Standards Review Committee (RevCom) Information
Gary Hoffman, RevCom Chair, reported.

6 Standards Coordinating Committee Reports
6.1 SCC Coordinator’s Report

The SCC Coordinator’s report was displayed.

There was a motion to Accept the submitted reports from SCC14 and SCC18. The motion was unanimously approved.

6.2 Scheduled Reports Due in June:
6.2.1 SCC14 – Quantities, Units, and Letter Symbols (Gary Hoffman)

Gary Hoffman, SCC14 Chair, provided a verbal update.

6.2.2 SCC18 – National Fire Protection Association Standards (Ed Larsen)

7 Liaison Reports
7.1 IEC SMB Report

Jack Sheldon, IEC Standardization Strategy Manager, reported.

8 Reports from Government Observers
8.1 NIST Report

Michael Janezic, Government Observer to the SASB from U.S. NIST, reported.

9 Informational Reports
9.1 CAG Report

This item occurred after agenda item 3.

Glenn Parsons, CAG Liaison to the SASB, reported.

9.2 SASB Chair’s Report

Chair Faure reported.

10 Old Business
10.1 Financial Reporting Requirements

Karen Kenney, Senior Director – Business Operations, Administration and Governance, reported.

All Sponsors are in compliance with the financial reporting requirements.
There was a motion to approve the **IEEE-SA Standards Board Implementation Plan for IEEE Policy 9.17 (Updated 30 June 2016)**. The motion was unanimously approved.

IEEE-SA STANDARDS BOARD IMPLEMENTATION PLAN FOR IEEE POLICY 9.17
Approved by IEEE-SA Standards Board, 15 September 2006 (updated 30 June 2016)

The IEEE-SA Standards Board adheres to IEEE Policy 9.17, which calls for measured and calculated values of quantities to be expressed in metric units in IEEE publications, following the detailed guidance for SI-based metric practice given in the most current version of IEEE/ASTM SI 10 American National Standard for Metric Practice.

Proposed new standards and revised standards submitted for approval should use metric units exclusively in the normative portions of the standard. Metric units shall be the primary unit of measurement where applicable. Inch-pound units may be included in parentheses after the metric units if the Sponsor believes that the audience for the document would benefit from the inclusion of inch-pound units, based on concerns for safety or clarity. Standards Coordinating Committee 14 (SCC14) shall provide guidance to IEEE Staff as they support the committees responsible for generating IEEE standards to help them carry out this implementation plan. IEEE Policy 9.17 recognizes the need for some exceptions. SCC14 shall review requests for individual exceptions and shall report its recommendations to the IEEE-SA Standards Board. Each recommendation from SCC14 to grant an exception shall indicate the period of applicability for such exception.

**Exceptions**

- Exceptions for trade sizes, such as the AWG wire series and inch-based standards for fasteners. Such data need not be translated into metric terms.
- Also excepted are those cases, such as plugs and sockets, where a mechanical fit to an inch-based product is required.
- This implementation plan does not require metric products to be substituted for inch-based products.

There was a motion to approve the removal of SCC14 mandatory coordination from Clause 5.4.4 of the **IEEE-SA Standards Board Operations Manual** as described in the ProCom Procedural Change Request Form ([Item 5.2 of the ProCom agenda](#)) recommended for approval by ProCom on 28 June 2016. The motion was unanimously approved.

IEEE-SA Standards Board Operations Manual

5.4.4 Mandatory coordination

The Sponsor shall coordinate via circulations of drafts with the following entities:
The Sponsor shall indicate the IEEE Registration Authority Committee (RAC) as a mandatory coordination entity when the draft is submitted for Sponsor ballot if

-- The PAR indicates the possible registration of objects or numbers to be included in or used by the project;

-- It becomes apparent through development of the draft that registration of objects or numbers will be included in or is used by the project;

-- Requested by the RAC.

Comments from these entities shall be given appropriate consideration and response. At the time of project submittal to the IEEE-SA Standards Board for consideration for approval, the Sponsor shall supply the most recent coordination comments and indicate either acceptance or a request for a waiver (see 4.2.3.2).

The ad hoc was disbanded, with thanks for its work.

11 New Business
11.1 IEEE-SA XML Update

Kim Breitfelder, Director – Content Production & Management, reported.

12 Upcoming Meetings

The next SASB meeting is a teleconference scheduled for Thursday, 22 September 2016.

The next in-person SASB meeting is scheduled for Wednesday, 07 December 2016, in Piscataway, New Jersey, USA.

13 SASB Resolutions


14 Adjournment

There being no further business, the meeting was adjourned at 1:21 p.m.