

IEEE SA Standards Board New Standards Committee (NesCom)

Meeting Minutes

22 September 2021

9:00 a.m. - 11:30 a.m. ET (UTC-4)

Teleconference

Members Present:

Doug Edwards

Ramy A. Fathy, Vice Chair

Guido Hiertz

Wei Hong

Daleep Mohla

Annette Reilly

Dorothy Stanley, Chair

Mehmet Ulema

Lei Wang

Karl Weber

Don Wright

Daidi Zhong

Members Absent:

Chenhui Niu

Sha Wei, Vice Chair

Guests:

Tony Allen [part time]

Michael Atlass [part time]

Edward Au

James Calkins

Tek Bahadur Chhetri

Iain Corby [part time]

Latonia Gordon

Gary Hoffman

Cody Huang

Tyler Jaynes

Dong Liu [part time]

Xiaohui Liu

Kevin Lu

Nara Luan

Carol McDonald

Kesang Namgay

Paul Nikolich

Glenn Parsons

Leticia Pibida

Ugyen Rinzin

Robby Robson
Jessy Rouyer
Kong Song
Richard Tong
Claire Topp [legal counsel]
Shumin Xu
Yiling Xu

IEEE Staff:

Christy Bahn
Adrien Barmaksiz
Kim Breitfelder
Matt Ceglia
Karen Evangelista
Jonathan Goldberg
Lloyd Green
Yvette Ho Sang
Konstantinos Karachalios
Soo Kim
Michael Kipness
Vanessa Lalitte
Kristin Little
Jiajia Liu
Kelly Lorne
Greg Marchini
Erin Morales
Christian Orlando
Maira Patterson
Dan Perez
Dave Ringle
Pat Roder
Rudi Schubert
Tom Thompson
Lisa Weisser, Administrator
Malia Zaman
Meng Zhao

[Unless otherwise noted, all votes are unanimous]

1 CALL TO ORDER AND INTRODUCTIONS

Chair Stanley welcomed everyone and called the meeting to order at 9:00 a.m. ET (UTC-4). There was a round of introductions by all in attendance.

2 REVIEW AND APPROVAL OF THE AGENDA

The agenda was reviewed, and Chair Stanley asked if there were any changes to be made. There was a request

to remove the withdrawal request for P1900.5.2a from the consent agenda. Chair Stanley agreed, and stated that P1900.5.2.a would be the first item of discussion following the approval of the agenda.

A motion was made (Mohla) and seconded (Hong) to approve the 22 September 2021 NesCom meeting agenda, including the consent agenda, as modified. In the absence of objection, the motion was approved.

2.1 Consent Agenda

2.1.1 Withdrawal Requests

IEEE Communications Society/Dynamic Spectrum Access Networks Standards Committee

P1900.5.2a

Standard Method for Modeling Spectrum Consumption - Amendment: Adding JavaScript Object Notation (JSON) and XML Schema Definition (XSD) and Validation Rules

Recommendation: Approve PAR withdrawal (11 approve, 0 disapprove, 0 abstain)

As noted in item 2, P1900.5.2a was removed from the consent agenda for discussion. This withdrawal request was discussed after the approval of the meeting agenda. There was a question about the reason for the withdrawal request, and there was clarification that a decision was made to submit a PAR for a revision instead of completing the amendment project. The PAR for revision is on the 22 September 2021 NesCom agenda. Following the discussion, a motion was made (Wright) and seconded (Mohla) to recommend approval of the withdrawal request. Following a roll call vote, the motion was approved.

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

P1917.1

Standard for Software Defined Networking and Network Function Virtualization Reliability

Recommendation: Approve PAR withdrawal

IEEE Consumer Technology Society/Standards Committee

P2900

Standard for Smart Home Security: Overview and Architecture

Recommendation: Approve PAR withdrawal

P2900.1

Standard for Smart Home Security: Taxonomy and Definitions

Recommendation: Approve PAR withdrawal

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P1451.8

Standard for Wind Turbine Health Monitoring System Wireless Communication Protocols and Transducer Electronic Data Sheet (TEDS) Format

Recommendation: Approve PAR withdrawal

2.1.2 Standards Committee Change Request for Six PARs and One Standard to Move from C/SAB to C/AISC

Note: The approval of this Standards Committee change request was included in the approval of the agenda and consent agenda.

The following six PARs have been moved from C/SAB to C/AISC:

P2840 'Standard for Responsible AI Licensing'
P2841 'Framework and Process for Deep Learning Evaluation'
P2863 'Recommended Practice for Organizational Governance of Artificial Intelligence'
P2874 'Standard for Spatial Web Protocol, Architecture, and Governance'
P2937 'Standard for Performance Benchmarking for AI Server Systems'
P2945 'Standard for Technical Requirements for Face Recognition Systems'

The following standard has been moved from C/SAB to C/AISC:

2830 'Standard for Technical Framework and Requirements of Trusted Execution Environment-Based Shared Machine Learning'

2.1.3 Standards Committee Change Request for P7130 and P7131 to Move from BOG/CAG to C/SAB

Note: The approval of this Standards Committee change request was included in the approval of the agenda and consent agenda. The following PARs have been moved from BOG/CAG to C/SAB:

P7130 'Standard for Quantum Technologies Definitions'
P7131 'Standard for Quantum Computing Performance Metrics & Performance Benchmarking'

3 APPROVAL OF MINUTES FROM THE 11 JUNE 2021 NESCOM MEETING

A motion was made (Wang) and seconded (Hiertz) to approve the minutes of the 11 June 2021 NesCom meeting. In the absence of objection, the motion was approved.

4 PARS FOR DISCUSSION

4.1 Modified PARs

IEEE Computer Society/LAN/MAN Standards Committee

P802.15.4-2020/Cor 1

Standard for Low-Rate Wireless Networks - Corrigendum 1 Correction of errors preventing backward compatibility

Recommendation: Approve modified PAR until December 2024

IEEE Consumer Technology Society/Standards Committee

P3141

Trial-Use Standard for 3D Body Processing

Recommendation: Approve modified PAR until December 2021

IEEE Engineering in Medicine and Biology Society/Standards Committee

P2621.3

Recommended Practice for Wireless Diabetes Device Security - Use of Mobile Devices in Diabetes Control Contexts

Recommendation: Approve modified PAR until December 2024

IEEE Industry Applications Society/Petroleum & Chemical Industry

P841.1

Standard for Process Industry - International Energy Efficient Class 3 (IE3) (Premium-Efficiency), Severe-Duty, Totally Enclosed Frame Surface Cooled Squirrel Cage Induction Motors - 0.75 kW to 370 kW (1 hp to 500 hp)

Recommendation: Approve modified PAR until December 2022

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

PN42.43

Standard for Mobile Radiation Monitors for Homeland Security

Recommendation: Approve modified PAR until December 2025

IEEE Power and Energy Society/Insulated Conductors

P82

Standard Test Procedure for Impulse Voltage Tests on Insulated Cables and their Accessories

Recommendation: Approve modified PAR until December 2024

IEEE Power and Energy Society/Transmission and Distribution

P519

Standard for Harmonic Control in Electric Power Systems

Recommendation: Approve modified PAR until December 2021

PC135.100

Standard for Line Hardware for Overhead Line Construction

Recommendation: Approve modified PAR until December 2023

IEEE SA Board of Governors/Corporate Advisory Group

P2973

Guide for Field Calibration System for Current Carrying Capacity of Overhead Transmission Lines

Recommendation: Approve modified PAR until December 2024

P7130

Standard for Quantum Technologies Definitions

Recommendation: Approve modified PAR until December 2021

[Note: See item 2.1.3.]

P7131

Standard for Quantum Computing Performance Metrics & Performance Benchmarking

Recommendation: Approve modified PAR until December 2022

[Note: See item 2.1.3.]

4.2 Extension Requests

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

P1935

Standard for Edge/Fog Manageability and Orchestration

Recommendation: Approve request for an extension until December 2023

IEEE Communications Society/Virtualized and Software Defined Networks, and Services Standards Committee**P1916.1**

Standard for Software Defined Networking and Network Function Virtualization Performance

Recommendation: Approve request for an extension until December 2024

IEEE Computer Society/LAN/MAN Standards Committee**P802.1Qcj**

Standard for Local and Metropolitan Area Networks – Bridges and Bridged Networks Amendment: Automatic Attachment to Provider Backbone Bridging (PBB) Services

Recommendation: Approve request for an extension until December 2023

P802.1Qcw

Standard for Local and Metropolitan Area Networks – Bridges and Bridged Networks Amendment: YANG Data Models for Scheduled Traffic, Frame Preemption, and Per-Stream Filtering and Policing

Recommendation: Approve request for an extension until December 2023

P802.11az

Standard for Information Technology - Telecommunications and Information Exchange Between Systems Local and Metropolitan Area Networks - Specific Requirements Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications - Enhancements for Positioning

Recommendation: Approve request for an extension until December 2023

P802.15.13

Standard for Multi-Gigabit per Second Optical Wireless Communications (OWC), with Ranges up to 200 Meters, for Both Stationary and Mobile Devices

Recommendation: Approve request for an extension until December 2022

IEEE Computer Society/Smart Manufacturing Standards Committee**P2671**

Standard for General Requirements of Online Detection Based on Machine Vision in Intelligent Manufacturing

Recommendation: Approve request for an extension until December 2023

P2672

Guide for General Requirements of Mass Customization

Recommendation: Approve request for an extension until December 2023

IEEE Computer Society/Software & Systems Engineering Standards Committee**P7002**

Data Privacy Process

Recommendation: Approve request for an extension until December 2022

P7003

Algorithmic Bias Considerations

Recommendation: Approve request for an extension until December 2023

P42010

Standard for Systems and Software Engineering - Architecture Description

Recommendation: Approve request for an extension until December 2022

IEEE Electromagnetic Compatibility Society/Standards Development Committee**P1597.1**

Standard for Validation of Computational Electromagnetics Computer Modeling and Simulations

Recommendation: Approve request for an extension until December 2022

P2665

Recommended Practice for Statistical Process Control for EMC Test Laboratories

Recommendation: Approve request for an extension until December 2023

P2718

Guide for Near Field Characterization of Unintentional Stochastic Radiators

Recommendation: Approve request for an extension until December 2023

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology**P1451.0**

Standard for a Smart Transducer Interface for Sensors, Actuators, Devices, and Systems - Common Functions, Communication Protocols, and Transducer Electronic Data Sheet (TEDS) Formats

Recommendation: Approve request for an extension until December 2024 (10 approve, 0 disapprove, 1 abstain)

P1451.5

Standard for a Smart Transducer Interface for Sensors and Actuator - Wireless Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats

Recommendation: Approve request for an extension until December 2024

P21451-1-5

Standard for a Smart Transducer Interface for Sensors, Actuators, and Devices - Simple Network Management Protocol (SNMP) for Networked Device Communication

Recommendation: Approve request for an extension until December 2024

IEEE Power and Energy Society/Power System Relaying and Control**PC37.101**

Guide for Generator Ground Protection

Recommendation: Approve request for an extension until December 2024

IEEE Power and Energy Society/Switchgear**PC37.75**

Standard for Pad-Mounted, Pole-Mounted and Submersible Switchgear Enclosures and Associated Control Enclosures - Coastal and Non-Coastal Environmental Integrity

Recommendation: Approve request for an extension until December 2023

IEEE Power and Energy Society/Transformers**PC57.12.38**

Standard for Pad-Mounted-Type, Self-Cooled, Single-Phase Distribution Transformers 250 kVA and Smaller: High Voltage, 34 500 GrdY/19 920 V and Below; Low Voltage, 480/240 V and Below

Recommendation: Approve request for an extension until December 2023

PC57.12.44

Standard Requirements for Secondary Network Protectors

Recommendation: Approve request for an extension until December 2022

PC57.13.9

Standard for Power-Line Carrier Coupling Capacitors and Coupling Capacitor Voltage Transformers

Recommendation: Approve request for an extension until December 2023

IEEE Power and Energy Society/Transmission and Distribution

P1218

Trial-Use Guide for Maintenance of Wood Transmission and Distribution Line Structures

Recommendation: Approve request for an extension until December 2023

IEEE Robotics and Automation Society/Standing Committee for Standards

P2751

3D Map Data Representation for Robotics and Automation

Recommendation: Approve request for an extension until December 2023

IEEE Vehicular Technology Society/Communications Based Train Control and Signals

P1474.1

Standard for Communications-Based Train Control (CBTC) Performance and Functional Requirements

Recommendation: Approve request for an extension until December 2023

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

P1547.2

Application Guide for IEEE Std 1547, IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems

Recommendation: Approve request for an extension until December 2022

4.3 New PARs

IEEE Communications Society/Access and Core Networks Standards Committee

P1937.6

Standard for Unmanned Aerial Vehicle (UAV) Light Detection and Ranging (LiDAR) Remote Sensing Operation

Recommendation: Approve new PAR until December 2025 (8 approve, 0 disapprove, 2 abstain)

There was a discussion about this PAR (and other related PARs on the NesCom agenda) with regard to gender-specific terminology. While the *IEEE SA Standards Style Manual* encourages avoiding such terminology, the point was made that the term 'unmanned aerial vehicle (UAV)' is still very widely used throughout industry. Additionally, changing this terminology for IEEE standards could have a negative effect on search results for these projects.

P1937.7

Standard for the Unmanned Aerial Vehicle (UAV) Polarimetric Remote Sensing Method for Earth Observation Applications

Recommendation: Approve new PAR until December 2025 (8 approve, 0 disapprove, 2 abstain)

P1937.8

Standard for Functional and Interface Requirements for Unmanned Aerial Vehicle (UAV) Cellular Communication Terminals

Recommendation: Approve new PAR until December 2025 (8 approve, 0 disapprove, 2 abstain)

P1937.9

Requirements for External Power and Power Management Interfaces for Unmanned Aerial Vehicle

Recommendation: Approve new PAR until December 2025 (8 approve, 0 disapprove, 2 abstain)

IEEE Communications Society/Mobile Communication Networks Standards Committee

P1954

Standard for Self-Organizing Spectrum-Agile Unmanned Aerial Vehicles Communications

Recommendation: Approve new PAR until December 2025 (8 approve, 0 disapprove, 2 abstain)

IEEE Computer Society/Artificial Intelligence Standards Committee

P3110

Standard for Computer Vision (CV) - Algorithms, Application Programming Interfaces (API), and Technical Requirements for Deep Learning Framework

Recommendation: Approve new PAR until December 2025 (9 approve, 0 disapprove, 2 abstain [Fathy])

P7015

Standard for Data and Artificial Intelligence (AI) Literacy, Skills, and Readiness

Recommendation: Approve new PAR until December 2025

IEEE Computer Society/Blockchain and Distributed Ledgers

P3220

Guide for the Application of Non-Fungible Token (NFT) Based Digital Asset

Recommendation: Approve new PAR until December 2025 (9 approve, 0 disapprove, 2 abstain)

IEEE Computer Society/Cloud Computing Standards Committee

P2304

Standard for Cloud Computing Shared Function Model

Recommendation: Approve new PAR until December 2025

IEEE Computer Society/Data Compression Standards Committee

P1857.11

Standard for Neural Network-Based Image Coding

Recommendation: Approve new PAR until December 2025

P1857.12

Standard for Smart Media Transport

Recommendation: Approve new PAR until December 2025 (9 approve, 0 disapprove, 2 abstain)

IEEE Computer Society/LAN/MAN Standards Committee

P802.3de

Standard for Ethernet

Amendment: Enhancements to the MAC Merge function and the Time Synchronization Service Interface (TSSI) to include Point-to-Point 10 Mb/s Single Pair Ethernet

Recommendation: Approve new PAR until December 2025

P802.15.4ab

Standard for Low-Rate Wireless Network

Amendment: Enhanced Ultra Wideband (UWB) Physical Layers (PHYs) and Associated Medium Access and Control (MAC) Sublayer Enhancements

Recommendation: Approve new PAR until December 2025

P802.15.6a

Standard for Local and Metropolitan Area Networks - Part 15.6: Wireless Body Area Networks

Amendment: Dependable Human and Vehicle Body Area Networks

Recommendation: Approve new PAR until December 2025

P802.15.14

Standard for Impulse Radio Ultra Wideband Wireless Ad Hoc Networks

Recommendation: Approve new PAR until December 2025

P802.15.15

Standard for Wireless Ad Hoc Networks

Recommendation: Approve new PAR until December 2025

IEEE Computer Society/Microprocessor Standards Committee

P3109

Standard for Arithmetic Formats for Machine Learning

Recommendation: Approve new PAR until December 2025

IEEE Computer Society/Software & Systems Engineering Standards Committee

P15026-3

Systems and Software Engineering - Systems and Software Assurance - Part 3: System Integrity Levels

Recommendation: Approve new PAR until December 2025

IEEE Consumer Technology Society/Standards Committee

P2089.1

Standard for Online Age Verification

Recommendation: Approve new PAR until December 2025

IEEE Industry Applications Society/Industrial Power Conversion Systems Department

P3114

Standard for Datasheet Parameters and Testing Protocols for Ultraviolet (UV) Light-Emitting Diodes (LEDs)

Recommendation: Approve new PAR until December 2025

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P1451.5p

Standard for Radio Frequency Channel Specifications for Performance Assessment of Industrial Wireless Systems
Recommendation: Approve new PAR until December 2025

IEEE Photonics Society/Standards Committee

P3111

Guide for Test and Inspection of Laser Devices Used for Remote Removal of Foreign Matter in Public Infrastructure Equipment

Recommendation: Approve new PAR until December 2025

IEEE Power and Energy Society/Transformers

PC57.107

Recommended Practice for Developing Design-Specific Operational Limits for Transformers Connected to Generators or Power Systems Subject to Significant Short-Term Changes in Voltage or Frequency

Recommendation: Approve new PAR until December 2025

PC57.141

Guide for Detection, Monitoring, and Evaluation of Winding Deformation in Liquid-Immersed Power Transformers

Recommendation: Approve new PAR until December 2025

IEEE Power and Energy Society/Transmission and Distribution

P3102

Standard for Conservation Voltage Reduction (CVR) Data Collection and Management Procedures

Recommendation: Approve new PAR until December 2025

IEEE Power Electronics Society/Standards Committee

P3105

Recommended Practice for Design and Integration of Solid State Transformers in Electric Grid

Recommendation: Approve new PAR until December 2025

IEEE Reliability Society/IEEE Reliability

P3106

Standard for Telecommunication System Reliability Indices

Recommendation: Approve new PAR until December 2025

IEEE Robotics and Automation Society/Standing Committee for Standards

P3107

Standard Terminology for Human-Robot Interaction

Recommendation: Approve new PAR until December 2025

P3108

Recommended Practice for Human-Robot Interaction Design of Human Subject Studies

Recommendation: Approve new PAR until December 2025

IEEE SA Board of Governors/Corporate Advisory Group

P3115

Guide for the Technical Specification of 5G (5th Generation Mobile Network) Power Communication Terminal

Recommendation: Approve new PAR until December 2025

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

P3119

Standard for the Procurement of Artificial Intelligence and Automated Decision Systems

Recommendation: Approve new PAR until December 2025

IEEE Vehicular Technology Society/Automated Vehicles Standards Committee

P3116

Standard for Automotive Radar Performance Metrics and Testing Methods for Advanced Driver Assistance Systems (ADAS) and Automated Driving System (ADS) Applications

Recommendation: Approve new PAR until December 2025

4.4 PARs for the Revision of Standards

IEEE Communications Society/Dynamic Spectrum Access Networks Standards Committee

P1900.5.2

Standard Method for Modeling Spectrum Consumption

Recommendation: Approve PAR for the revision of a standard until December 2025

IEEE Computer Society/Data Compression Standards Committee

P1857.2

Standard for Advanced Audio Coding

Recommendation: Approve PAR for the revision of a standard until December 2025 (10 approve, 0 disapprove, 1 abstain)

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

P1730

Recommended Practice for Distributed Simulation Engineering and Execution Process (DSEEP)

Recommendation: Approve PAR for the revision of a standard until December 2025

IEEE Computer Society/Software & Systems Engineering Standards Committee

P32430

Standard for Software Non-Functional Sizing Measurements

Recommendation: Approve PAR for the revision of a standard until December 2025

IEEE Industry Applications Society/Industrial Power Conversion Systems Department

P114

Standard Test Procedure for Single-Phase Induction Motors

Recommendation: Approve PAR for the revision of a standard until December 2025

IEEE Industry Applications Society/Petroleum & Chemical Industry

P45.1

Recommended Practice for Electrical Installations on Shipboard - Design

Recommendation: Approve PAR for the revision of a standard until December 2025

P515.1

Standard for the Testing, Design, Installation, and Maintenance of Electrical Resistance Trace Heating for Commercial Applications

Recommendation: Approve PAR for the revision of a standard until December 2025

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

PN42.38

Standard for Spectroscopy-Based Portal Monitors Used for Homeland Security

Recommendation: Approve PAR for the revision of a standard until December 2025

IEEE Power and Energy Society/Insulated Conductors

P404

Standard for Extruded and Laminated Dielectric Shielded Cable Joints Rated 2.5 kV to 500 kV

Recommendation: Approve PAR for the revision of a standard until December 2025

IEEE Power and Energy Society/Switchgear

PC37.20.6

Standard for 4.76 kV to 48.3 kV Rated Ground and Test Devices Used in Enclosures

Recommendation: Approve PAR for the revision of a standard until December 2025 (10 approve, 0 disapprove, 1 abstain)

IEEE Power and Energy Society/Transformers

P65700-19-03

Standard - Bushings for DC Application

Recommendation: Approve PAR for the revision of a standard until December 2025

PC57.155

Guide for the Interpretation of Gases Generated in Natural and Synthetic Ester Liquid Type Transformers

Recommendation: Approve PAR for the revision of a standard until December 2025

PC57.637

Guide for Reclamation and Reconditioning of Insulating Liquids

Recommendation: Approve PAR for the revision of a standard until December 2025

IEEE Power and Energy Society/Transmission and Distribution

P1048

Guide for Protective Grounding of Power Lines

Recommendation: Approve PAR for the revision of a standard until December 2025

P1067

Guide for In-Service Use, Care, and Maintenance, of Conductive Clothing for Use on Voltages up to 765 kV AC and +/-750 kV DC

Recommendation: Approve PAR for the revision of a standard until December 2025

IEEE Vehicular Technology Society/Intelligent Transportation Systems

P1609.2.1

Standard for Wireless Access in Vehicular Environments (WAVE) - Certificate Management Interfaces for End Entities

Recommendation: Approve PAR for the revision of a standard until December 2025

Chair Stanley acknowledged the work of the NesCom members and the PAR submitters. She also acknowledged Lisa Weisser.

5 OLD BUSINESS

5.1 Committee Member Interactions/Comments Re: myProject

Annette Reilly mentioned that she appreciates the new functionality for NesCom work. Annette also noted that response times in myProject routinely exceed what is generally accepted, and asked if this can be made faster. This issue was brought to the myProject team.

Note: This is a standing agenda item and if anyone has any feedback about their user experience with myProject, please let Lisa Weisser know.

6 NEW BUSINESS

6.1 Working Group and NesCom Member Roles Regarding Terminology

This agenda item was deferred to the October 2021 NesCom meeting due to lack of time.

7 DATE OF NEXT MEETING

The next meeting of NesCom will take place on 27 October 2021 by teleconference.

8 ADJOURNMENT

There being no further business, Chair Stanley thanked everyone, and the meeting was adjourned at 11:32 a.m. ET (UTC-4).