IEEE SA Standards Board New Standards Committee (NesCom) Recommendations

[SASB approval date: 15-Feb-2024]
[All votes unanimous unless noted otherwise.]

Consent Agenda

Administrative Withdrawal Requests
IEEE Power and Energy Society/Insulated Conductors P1614
Field-Testing of Shielded Power Cable Systems Rated 5 kV and Above with Continuous Alternating Voltage
Recommendation: Approve PAR withdrawal.

Withdrawal Requests
IEEE Computer Society/Cloud Computing Standards Committee P2304
Standard for Cloud Computing Shared Function Model
Recommendation: Approve PAR withdrawal.

IEEE Computer Society/LAN/MAN Standards Committee P802.3dh
Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for multi-gigabit optical Ethernet using graded-index plastic optical fiber for application in the automotive environment
Recommendation: Approve PAR withdrawal.

Modified PARs
IEEE Communications Society/Unmanned Aerial Vehicles Communications Standards Committee P1937.3
Standard for Flight Data Transmission of Civil Unmanned Aerial Vehicle Based on Short Message Mechanisms
Recommendation: Approve modified PAR.

IEEE Computer Society/Blockchain and Distributed Ledgers P3204
Standard for Blockchain Interoperability - Cross-Chain Transaction Consistency Protocol
Recommendation: Approve modified PAR.

IEEE Computer Society/Software & Systems Engineering Standards Committee P32430
Software engineering - Software Non-Functional Sizing Measurement
Recommendation: Approve modified PAR.

IEEE Instrumentation and Measurement Society/TC45 - Radiation and Nuclear Instrumentation and Systems PN42.59
Standard for Measuring the Imaging Performance of Active Millimeter-Wave Systems for Security Screening of Humans
Recommendation: Approve modified PAR.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology P3388
Standard for the Performance Assessment of Industrial Wireless Systems
Recommendation: Approve modified PAR.

IEEE Power and Energy Society/Transformers PC57.156
Guide for Tank Rupture Mitigation of Liquid-Immersed Power Transformers and Reactors
Recommendation: Approve modified PAR.

IEEE Vehicular Technology Society/High Speed Train and Maglev Standards Committee P3143
Standard for Electric Traction System for Short Primary Maglev Vehicle
Recommendation: Approve modified PAR.

Extension Requests
IEEE Computer Society/Standards Activities Board Standards Committee

**P3079.1**
Motion to Photon (MTP) Latency in Virtual Environments

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

IEEE Consumer Technology Society/Emerging Technology Standards Committee

**P2811**
Standard for Architectural Framework and Technical Requirements for Smart Lock
Recommendation: Approve request for an extension until 31 December 2025.

**P2812**
Guide for Minor Guardianship System for Online Mobile Gaming

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

**IEEE Electromagnetic Compatibility Society/Standards Development Committee**

**P1128**
Recommended Practice for Radio-Frequency (RF) Absorber Evaluation in the Range of 30 MHz to 40 GHz

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

**P2838**
Standard for Aircraft Component Lightning Strike Direct Effects Qualification

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


**P2418.5**
Guide for Blockchain in Power and Energy Systems

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

**IEEE Power and Energy Society/Transmission and Distribution**

**P2798**
Guide for Helicopter Operation Procedures for the Utility Industry

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

**New PARs**

**IEEE Computer Society/Artificial Intelligence Standards Committee**

**P3447**
System Architecture and General Requirements for Pre-trained Large Language Models (LLM) Applications in the Smart Home Industry

Recommendation: Approve new PAR until December 2028.

**P3458**
Standard for Domain-Specific Large Language Model Management Platforms

Recommendation: Approve new PAR until December 2028.

**IEEE Computer Society/Blockchain and Distributed Ledgers**

**P3227.1**
System Technical Requirements for Risk Assessment of On-chain Digital Content

Recommendation: Approve new PAR until December 2028.

**P3233**
Standard for Blockchain-Based Decentralized Storage Protocol Specification

Recommendation: Approve new PAR until December 2028.

**IEEE Computer Society/Cybersecurity and Privacy Standards Committee**

**P3454**
Standard for Cloud Computing - Operational Resilience - Framework

Recommendation: Approve new PAR until December 2028.

**IEEE Computer Society/Knowledge Engineering Standards Committee**

**P2807.9**
Guide for Application of Knowledge Graphs for Rail Transit

Recommendation: Approve new PAR until December 2028.

**P2807.10**
Guide for Knowledge Modeling for Carbon Verification-Oriented Knowledge Graph

Recommendation: Approve new PAR until December 2028.

**P2807.11**
Guide for Production Oriented Knowledge Graph in Petroleum and Chemical Industry

Recommendation: Defer New PAR until next NesCom meeting for the Working Group to collaborate with other societies as to the Scope and Purpose of the PAR. (Vote: 5=Yes; 4=No ; 2=Abstain)

**P3460**

Recommendation: Defer New PAR until next NesCom meeting for the Working Group to collaborate with other societies as to the Scope and Purpose of the PAR. (1 Abstention)

**IEEE Computer Society/LAN/MAN Standards Committee**

**P802.1ACea**
IEEE Standard for Local and metropolitan area networks -- Media Access Control (MAC) Service Definition Amendment: Support for IEEE Std 802.15.6

Recommendation: Approve new PAR until December 2028.
IEEE Standard for Local and Metropolitan Area Networks--Link Aggregation Amendment: YANG for Link Aggregation

**Recommendation:** Approve new PAR until December 2028.

IEEE Standard for Local and metropolitan area networks--Frame Replication and Elimination for Reliability - Corrigendum 1

**Recommendation:** Approve new PAR until December 2028.

IEEE Standard for Ethernet - Corrigendum 1 - Multi-Gigabit Automotive Medium Dependent Interface (MDI) Return Loss

**Recommendation:** Approve new PAR until December 2028.

IEEE Standard for Local and Metropolitan Area Networks--Part 19: Coexistence Methods for IEEE 802.11 and IEEE 802.15.4 Based Systems Operating in the Sub-1 GHz Frequency Bands Amendment: Additional recommendations for improving coexistence

**Recommendation:** Approve new PAR until December 2028.

IEEE Computer Society/Software & Systems Engineering Standards Committee

P24748-7
Systems and software engineering--Life cycle management--Part 7: Application of systems engineering on defense programs

**Recommendation:** Approve new PAR until December 2028.

P24748-8
Systems and software engineering--Life cycle management--Part 8: Technical reviews and audits on defense programs

**Recommendation:** Approve new PAR until December 2028.

P42024
Standard for Enterprise, systems and software --- Architecture fundamentals

**Recommendation:** Approve new PAR until December 2028.

P42042
Standard for Enterprise, Systems and Software --- Reference architectures

**Recommendation:** Approve new PAR until December 2028.

IEEE Computer Society/Standards Activities Board Standards Committee

P3079.3.2
Standard for a Framework for Privacy Protection through Identifiability Management Arising from Avatar Interaction

**Recommendation:** Approve new PAR until December 2028.

IEEE Computer Society/Test Technology

P1838a
IEEE Standard for Test Access Architecture for Three-Dimensional Stacked Integrated Circuits Amendment 1: Testing of Interconnects External to Multi-Die Assemblies using Boundary-Scan Register (BSR) Segments

**Recommendation:** Approve new PAR until December 2028.

IEEE Consumer Technology Society/Blockchain Standards Committee

P2147.1
Standard for Requirements of Integrated Consortium Chain Station

**Recommendation:** Conditional approval with editorial corrections of comment #2.3 to be made; new PAR valid until December 2028.

IEEE Education Society/Standards Committee

P2834.1
Standard for Digital Forensics on Trusted Learning Systems

**Recommendation:** Approve new PAR until December 2028.

IEEE Engineering in Medicine and Biology Society/Standards Committee

P3337
Standard for the Requirements for Designing Accessible Intelligent Cyber-Physical Systems (AICS) for Well-Being

**Recommendation:** Defer New Par until next NesCom meeting to provide time for continued discussion and clarification on the PAR. (Vote: 8=Yes; 0= No; 1=Abstain)

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

P3457
Guide for Energy-saving Lightweight Transformation and Operating Maintenance of Electric Facilities in Existing
Recommendation: Approve new PAR until December 2028.

IEEE Instrumentation and Measurement Society/TC45 - Radiation and Nuclear Instrumentation and Systems
PN42.35
Recommendation: Approve new PAR until December 2028.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology
P3456.1
Recommendation: Approve new PAR until December 2028.

P3456.2
Recommendation: Approve new PAR until December 2028.

IEEE Photonics Society/Standards Committee
P3461
Standard for Smart Infrastructure with Fiber Optic Sensors
Recommendation: Approve new PAR until December 2028.

IEEE Power and Energy Society/Power System Instrumentation and Measurements
P3453
Recommendation: Approve new PAR until December 2028.

IEEE Power and Energy Society/Transformers
PC57.20
Guide for Power Transformers for Low-frequency (10 Hz to 30 Hz) Power Transmission
Recommendation: Approve new PAR until December 2028.

IEEE Robotics and Automation Society/Standing Committee for Standards
P3140.1
Recommendation: Approve new PAR until December 2028.

P3140.2
Recommendation: Approve new PAR until December 2028.

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board
P3328.1
Recommended Practice for Quality Assessment of Wheeled Robots for Substation Inspection
Recommendation: Approve new PAR until December 2028.

IEEE Systems, Man, and Cybernetics Society/Standards Committee
P3449
Recommended Practice for Active Safety Online Monitoring and Early Fire Warning of Lithium-ion Battery Energy Storage Power Station
Recommendation: Approve new PAR until December 2028.

IEEE Vehicular Technology Society/Intelligent Transportation Systems
P3452
Standard for Technical Requirements for Vehicle Networking Management System Based on 3 Access Point Name (3APN)
Recommendation: Approve new PAR until December 2028.

PARs for the Revision of Standards
IEEE Communications Society/Dynamic Spectrum Access Networks Standards Committee
P1900.5
Standard for Requirements and System Architectures for Dynamic Spectrum Access Systems
Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Computer Society/Cybersecurity and Privacy Standards Committee
P1619
Standard for Cryptographic Protection of Data on Block-Oriented Storage Devices
Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Computer Society/Data Compression Standards Committee
P1857.5
Standard for Advanced Mobile Speech and Audio
Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Industry Applications Society/Petroleum & Chemical Industry
P45.7
Recommended Practice for Electrical Installations on Shipboard -- AC Switchboards
Recommendation: Approve PAR for the revision of a standard until December 2028.

P1810
Guide for the Installation of Circuit-Integrity Cables Evaluated for Hydrocarbon Pool Fires in Petroleum and Chemical Facilities
Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Power and Energy Society/Energy Storage & Stationary Battery Committee
P1106
Recommended Practice for Installation, Maintenance, Testing, and Replacement of Vented Nickel-Cadmium Batteries for Stationary Applications
Recommendation: Approve PAR for the revision of a standard until December 2028.

P1635
IEEE/ASHRAE Guide for the Ventilation and Thermal Management of Batteries for Stationary Applications
Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Power and Energy Society/Power System Communications and Cybersecurity
P487.2
Standard for the Electrical Protection of Communication Facilities Serving Electric Supply Locations through the Use of Optical Fiber Systems
Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Power and Energy Society/Switchgear
PC37.30.2
Guide for Wind-Loading Evaluation of High-Voltage (>1000 V) Air-Break Switches
Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Power and Energy Society/Transformers
P60076-57-129
IEC/IEEE International Standard - Power transformers--Part 57-129: Transformers for HVDC applications
Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.12.23
Standard for Submersible Single-Phase Transformers:250 kVA and Smaller; High Voltage 34 500 GrdY/19 920 V and Below; Low Voltage 600 V and Below
Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.12.37
Standard for the Electronic Reporting of Distribution Transformer Test Data
Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.12.39
Standard for Requirements for Distribution Transformer Tank Pressure Coordination
Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.15
Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.127
Guide for the Detection, Location and Interpretation of Sources of Acoustic Emissions from Electrical Discharges in Transformers and Reactors.
Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.159
Standard for Distributed Photo-Voltaic Transformers (DPVTs)
Recommendation: Approve PAR for the revision of a standard until December 2028.