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| Project | **Human Factor for Immersive Content Working Group**  <<http://sites.ieee.org/sagroups-3079/> **>** |
| Title | **22-Sep\_2021 IEEE-SA NesCom Recommendations** |
| DCN | **3079-20-0073-00-0000** |
| Date Submitted | **September 30, 2021** |
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| Re: |  |
| Abstract | This document is the summary of the NesCom meeting held on September 22, 2021. It contains the list of projects submitted to NesCom for PAR approval and the recommendations from IEEE-SASB. |
| Purpose | The purpose of this document is to share technical topics and trends currently being discussed in IEEE-SA by reviewing the topics covered by NesCom. |
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**IEEE SA Standards Board New Standards Committee (NesCom)**

**Recommendations**

[SASB approval date: 23-Sep-2021]

[All votes unanimous unless noted otherwise.]

**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

**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

**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

**P7131**

Standard for Quantum Computing Performance Metrics & Performance Benchmarking

**Recommendation:** Approve modified PAR until December 2022

**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(TM), IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems

**Recommendation:** Approve request for an extension until December 2022

**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)

**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 Wide-Band (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

**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

**Standards Committee Changes**

Current Standards Committee for the following standard: C/SAB; New Standards Committee: C/AISC

**2830** ‘Standard for Technical Framework and Requirements of Trusted Execution Environment based Shared Machine Learning'

Current Standards Committee for the following PARs: C/SAB; New Standards Committee: 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’

Current Standards Committee for the following PARs: BOG/CAG; New Standards Committee: C/SAB

**P7130** ‘Standard for Quantum Technologies Definitions’

**P7131** ‘Standard for Quantum Computing Performance Metrics & Performance Benchmarking’